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1.13 cglib_junit 3.1

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found

from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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1.31 derby 10.4.2.0

1.32 diffutils 1.2.1

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1.35 drools-compiler 6.3.0.Final

1.36 drools-core 6.3.0.Final

1.37 easymock 2.0

1.38 easymock 3.3.1

1.39 easymockclassextension 2.4

1.40 ftplet-api 1.0.4

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1.45 groovy-all_CPLv1.0 1.6.0

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Updated 16 Apr 2009

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1.46 hibernate-entitymanager 4.2.14.Final

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1.47 hibernate-jpa-2.0-api 1.0.1.Final

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* Linda DeMichiel - Java Persistence 2.0 - Version 2.0 (October 1, 2009)

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1.48 hibernate-search 4.2.0.Final

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*/

package org.hibernate.validator;

```
import javax.validation.Configuration;  
import javax.validation.ValidatorFactory;  
import javax.validation.spi.BootstrapState;  
import javax.validation.spi.ConfigurationState;  
import javax.validation.spi.ValidationProvider;
```

```
import org.hibernate.validator.internal.engine.ConfigurationImpl;  
import org.hibernate.validator.internal.engine.ValidatorFactoryImpl;
```

/**

* Default implementation of { @code ValidationProvider } within Hibernate Validator.

```

*
* @author Emmanuel Bernard
* @author Hardy Ferentschik
*/
public class HibernateValidator implements ValidationProvider<HibernateValidatorConfiguration> {

    public HibernateValidatorConfiguration createSpecializedConfiguration(BootstrapState state) {
        return HibernateValidatorConfiguration.class.cast( new ConfigurationImpl( this ) );
    }

    public Configuration<?> createGenericConfiguration(BootstrapState state) {
        return new ConfigurationImpl( state );
    }

    public ValidatorFactory buildValidatorFactory(ConfigurationState configurationState) {
        return new ValidatorFactoryImpl( configurationState );
    }
}

```

1.50 hsqldb 2.3.2

1.51 ironjacamar-jdbc 1.0.26.Final

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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```
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*/
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1.56 Jackson-JAXRS-base 2.2.2

1.57 Jackson-JAXRS-JSON 2.2.2

1.58 Jackson-module-JAXB-annotations 2.2.2

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1.59 jacorb 2.3.2.jbossorg-0

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1.1

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1.9.2

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found
from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well
as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to
allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs,
to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made
to support other non-standard platforms as well.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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1.91 jersey-test-framework 1.1.5.1

1.92 jettison 1.1

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1.93 jgroups 3.6.3.Final

1.94 jradius-core 1.0.0

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1.95 jradius-dictionary 1.0.0

1.96 jruby-complete 1.6.7

1.96.1 Available under license :

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1.104 jython-standalone 2.5.2

1.105 keycloak-core 1.8.0.CR3

1.106 Log4j 1.2 :15.0

1.106.1 Available under license :

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1.107 milyn-commons 1.5.1

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1.108 milyn-smooks-core 1.5.1

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tabber.js by Patrick Fitzgerald pat@barelyfitz.com

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1.109 milyn-smooks-javabean 1.5.1

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1.117 opencsv 2.1

1.118 openjpa 1.2.1

1.118.1 Available under license :

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=====
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=====

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1.127 slf4j-api 1.7.7

1.128 slf4j-log4j12 1.7.7

1.129 spring 2.5.6.SEC01

1.130 Spring Framework: DAO 2.0.8

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 */
```

```
package org.springframework.dao;
```

```
/**
 * Exception thrown when the underlying resource denied a permission
 * to access a specific element, such as a specific database table.
 *
 * @author Juergen Hoeller
 * @since 2.0
 */
public class PermissionDeniedDataAccessException extends DataAccessException {

    /**
     * Constructor for PermissionDeniedDataAccessException.
     * @param msg the detail message
     * @param cause the root cause from the underlying data access API,
     * such as JDBC
     */
    public PermissionDeniedDataAccessException(String msg, Throwable cause) {
        super(msg, cause);
    }
}
```

```

}
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 */

```

```
package org.springframework.transaction;
```

```

/**
 * Exception that represents a transaction failure caused by a heuristic
 * decision on the side of the transaction coordinator.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 17.03.2003
 */
public class HeuristicCompletionException extends TransactionException {

```

```

/**
 * Values for the outcome state of a heuristically completed transaction.
 */
public static final int STATE_UNKNOWN = 0;
public static final int STATE_COMMITTED = 1;
public static final int STATE_ROLLED_BACK = 2;
public static final int STATE_MIXED = 3;

```

```

public static String getStateString(int state) {
    switch (state) {
        case STATE_COMMITTED:
            return "committed";
        case STATE_ROLLED_BACK:
            return "rolled back";
        case STATE_MIXED:
            return "mixed";
        default:
            return "unknown";
    }
}

```

```

    }
}

/**
 * The outcome state of the transaction: have some or all resources been committed?
 */
private int outcomeState = STATE_UNKNOWN;

/**
 * Constructor for HeuristicCompletionException.
 * @param outcomeState the outcome state of the transaction
 * @param cause the root cause from the transaction API in use
 */
public HeuristicCompletionException(int outcomeState, Throwable cause) {
    super("Heuristic completion: outcome state is " + getStateString(outcomeState), cause);
    this.outcomeState = outcomeState;
}

/**
 * Return the outcome state of the transaction state,
 * as one of the constants in this class.
 * @see #STATE_UNKNOWN
 * @see #STATE_COMMITTED
 * @see #STATE_ROLLED_BACK
 * @see #STATE_MIXED
 */
public int getOutcomeState() {
    return outcomeState;
}

}

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```

```

package org.springframework.transaction;

/**
 * Exception thrown when the existence or non-existence of a transaction
 * amounts to an illegal state according to the transaction propagation
 * behavior that applies.
 *
 * @author Juergen Hoeller
 * @since 21.01.2004
 */
public class IllegalTransactionStateException extends TransactionUsageException {

    /**
     * Constructor for IllegalTransactionStateException.
     * @param msg the detail message
     */
    public IllegalTransactionStateException(String msg) {
        super(msg);
    }

    /**
     * Constructor for IllegalTransactionStateException.
     * @param msg the detail message
     * @param cause the root cause from the transaction API in use
     */
    public IllegalTransactionStateException(String msg, Throwable cause) {
        super(msg, cause);
    }

}

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 */

package org.springframework.transaction.jta;

```

```

import java.util.List;

import javax.transaction.Status;
import javax.transaction.Synchronization;

import org.springframework.transaction.support.TransactionSynchronization;
import org.springframework.transaction.support.TransactionSynchronizationUtils;

/**
 * Adapter for a JTA Synchronization, invoking the <code>afterCompletion</code> of
 * Spring TransactionSynchronizations after the outer JTA transaction has completed.
 * Applied when participating in an existing (non-Spring) JTA transaction.
 *
 * @author Juergen Hoeller
 * @since 2.0
 */
public class JtaAfterCompletionSynchronization implements Synchronization {

    private final List synchronizations;

    /**
     * Create a new JtaAfterCompletionSynchronization for the given synchronization objects.
     * @param synchronizations the List of TransactionSynchronization objects
     * @see org.springframework.transaction.support.TransactionSynchronization
     */
    public JtaAfterCompletionSynchronization(List synchronizations) {
        this.synchronizations = synchronizations;
    }

    public void beforeCompletion() {
    }

    public void afterCompletion(int status) {
        switch (status) {
            case Status.STATUS_COMMITTED:
                try {
                    TransactionSynchronizationUtils.invokeAfterCommit(this.synchronizations);
                }
                finally {
                    TransactionSynchronizationUtils.invokeAfterCompletion(
                        this.synchronizations, TransactionSynchronization.STATUS_COMMITTED);
                }
                break;
            case Status.STATUS_ROLLEDBACK:
                TransactionSynchronizationUtils.invokeAfterCompletion(

```

```

        this.synchronizations, TransactionSynchronization.STATUS_ROLLED_BACK);
    break;
default:
    TransactionSynchronizationUtils.invokeAfterCompletion(
        this.synchronizations, TransactionSynchronization.STATUS_UNKNOWN);
    }
}
}
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 */

package org.springframework.transaction.support;

import org.springframework.transaction.PlatformTransactionManager;
import org.springframework.transaction.TransactionDefinition;
import org.springframework.transaction.TransactionException;

/**
 * Extension of the {@link org.springframework.transaction.PlatformTransactionManager}
 * interface, exposing a method for executing a given callback within a transaction.
 *
 * <p>Implementors of this interface automatically express a preference for
 * callbacks over programmatic <code>getTransaction</code>, <code>commit</code>
 * and <code>rollback</code> calls. Calling code may check whether a given
 * transaction manager implements this interface to choose to prepare a
 * callback instead of explicit transaction demarcation control.
 *
 * <p>Spring's {@link TransactionTemplate} and
 * {@link org.springframework.transaction.interceptor.TransactionInterceptor}
 * detect and use this PlatformTransactionManager variant automatically.
 *
 * @author Juergen Hoeller
 * @since 2.0
 * @see org.springframework.transaction.support.TransactionTemplate
 * @see org.springframework.transaction.interceptor.TransactionInterceptor

```

```

*/
public interface CallbackPreferringPlatformTransactionManager extends PlatformTransactionManager {

/**
 * Execute the action specified by the given callback object within a transaction.
 * <p>Allows for returning a result object created within the transaction, that is,
 * a domain object or a collection of domain objects. A RuntimeException thrown
 * by the callback is treated as a fatal exception that enforces a rollback.
 * Such an exception gets propagated to the caller of the template.
 * @param definition the definition for the transaction to wrap the callback in
 * @param callback the callback object that specifies the transactional action
 * @return a result object returned by the callback, or <code>null</code> if none
 * @throws TransactionException in case of initialization, rollback, or system errors
 * @throws RuntimeException if thrown by the TransactionCallback
 */
Object execute(TransactionDefinition definition, TransactionCallback callback)
    throws TransactionException;

}

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 */

package org.springframework.transaction.support;

/**
 * A simple { @link org.springframework.transaction.TransactionStatus }
 * implementation.
 *
 * <p>Derives from { @link AbstractTransactionStatus } and adds an explicit
 * { @link #isNewTransaction() "newTransaction" } flag.
 *
 * <p>This class is not used by any of Spring's pre-built
 * { @link org.springframework.transaction.PlatformTransactionManager }
 * implementations. It is mainly provided as a start for custom transaction
 * manager implementations and as a static mock for testing transactional

```

```

* code (either as part of a mock <code>PlatformTransactionManager</code> or
* as argument passed into a {@link TransactionCallback} to be tested).
*
* @author Juergen Hoeller
* @since 1.2.3
* @see #SimpleTransactionStatus(boolean)
* @see TransactionCallback
*/
public class SimpleTransactionStatus extends AbstractTransactionStatus {

    private final boolean newTransaction;

    /**
     * Creates a new instance of the {@link SimpleTransactionStatus} class,
     * indicating a new transaction.
     */
    public SimpleTransactionStatus() {
        this(true);
    }

    /**
     * Creates a new instance of the {@link SimpleTransactionStatus} class.
     * @param newTransaction whether to indicate a new transaction
     */
    public SimpleTransactionStatus(boolean newTransaction) {
        this.newTransaction = newTransaction;
    }

    public boolean isNewTransaction() {
        return newTransaction;
    }

}

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```

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*/

```
package org.springframework.transaction.support;
```

```
import org.apache.commons.logging.Log;
```

```
import org.apache.commons.logging.LogFactory;
```

```
import org.springframework.beans.factory.InitializingBean;
```

```
import org.springframework.transaction.PlatformTransactionManager;
```

```
import org.springframework.transaction.TransactionDefinition;
```

```
import org.springframework.transaction.TransactionException;
```

```
import org.springframework.transaction.TransactionStatus;
```

```
/**
```

```
* Template class that simplifies programmatic transaction demarcation and  
* transaction exception handling.
```

```
*
```

```
* <p>The central method is { @link #execute }, supporting transactional code that  
* implements the { @link TransactionCallback } interface. This template handles  
* the transaction lifecycle and possible exceptions such that neither the  
* TransactionCallback implementation nor the calling code needs to explicitly  
* handle transactions.
```

```
*
```

```
* <p>Typical usage: Allows for writing low-level data access objects that use  
* resources such as JDBC DataSources but are not transaction-aware themselves.  
* Instead, they can implicitly participate in transactions handled by higher-level  
* application services utilizing this class, making calls to the low-level  
* services via an inner-class callback object.
```

```
*
```

```
* <p>Can be used within a service implementation via direct instantiation with  
* a transaction manager reference, or get prepared in an application context  
* and passed to services as bean reference. Note: The transaction manager should  
* always be configured as bean in the application context: in the first case given  
* to the service directly, in the second case given to the prepared template.
```

```
*
```

```
* <p>Supports setting the propagation behavior and the isolation level by name,  
* for convenient configuration in context definitions.
```

```
*
```

```
* @author Juergen Hoeller
```

```
* @since 17.03.2003
```

```
* @see #execute
```

```
* @see #setTransactionManager
```

```
* @see org.springframework.transaction.PlatformTransactionManager
```

```
*/
```

```
public class TransactionTemplate extends DefaultTransactionDefinition  
    implements TransactionOperations, InitializingBean {
```

```

/** Logger available to subclasses */
protected final Log logger = LogFactory.getLog(getClass());

private PlatformTransactionManager transactionManager;

/**
 * Construct a new TransactionTemplate for bean usage.
 * <p>Note: The PlatformTransactionManager needs to be set before
 * any <code>execute</code> calls.
 * @see #setTransactionManager
 */
public TransactionTemplate() {
}

/**
 * Construct a new TransactionTemplate using the given transaction manager.
 * @param transactionManager the transaction management strategy to be used
 */
public TransactionTemplate(PlatformTransactionManager transactionManager) {
    this.transactionManager = transactionManager;
}

/**
 * Construct a new TransactionTemplate using the given transaction manager,
 * taking its default settings from the given transaction definition.
 * @param transactionManager the transaction management strategy to be used
 * @param transactionDefinition the transaction definition to copy the
 * default settings from. Local properties can still be set to change values.
 */
public TransactionTemplate(PlatformTransactionManager transactionManager, TransactionDefinition
transactionDefinition) {
    super(transactionDefinition);
    this.transactionManager = transactionManager;
}

/**
 * Set the transaction management strategy to be used.
 */
public void setTransactionManager(PlatformTransactionManager transactionManager) {
    this.transactionManager = transactionManager;
}

/**
 * Return the transaction management strategy to be used.
 */
public PlatformTransactionManager getTransactionManager() {

```

```

return this.transactionManager;
}

public void afterPropertiesSet() {
    if (this.transactionManager == null) {
        throw new IllegalArgumentException("Property 'transactionManager' is required");
    }
}

public Object execute(TransactionCallback action) throws TransactionException {
    if (this.transactionManager instanceof CallbackPreferringPlatformTransactionManager) {
        return ((CallbackPreferringPlatformTransactionManager) this.transactionManager).execute(this, action);
    }
    else {
        TransactionStatus status = this.transactionManager.getTransaction(this);
        Object result = null;
        try {
            result = action.doInTransaction(status);
        }
        catch (RuntimeException ex) {
            // Transactional code threw application exception -> rollback
            rollbackOnException(status, ex);
            throw ex;
        }
        catch (Error err) {
            // Transactional code threw error -> rollback
            rollbackOnException(status, err);
            throw err;
        }
        this.transactionManager.commit(status);
        return result;
    }
}

/**
 * Perform a rollback, handling rollback exceptions properly.
 * @param status object representing the transaction
 * @param ex the thrown application exception or error
 * @throws TransactionException in case of a rollback error
 */
private void rollbackOnException(TransactionStatus status, Throwable ex) throws TransactionException {
    logger.debug("Initiating transaction rollback on application exception", ex);
    try {
        this.transactionManager.rollback(status);
    }
    catch (RuntimeException ex2) {
        logger.error("Application exception overridden by rollback exception", ex);
    }
}

```

```

    throw ex2;
  }
  catch (Error err) {
    logger.error("Application exception overridden by rollback error", ex);
    throw err;
  }
}
}

```

1.131 Spring Framework: Hibernate3 2.0.8

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```

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 */

package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;

import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPrecedenceInformation;
import org.springframework.aop.aspectj.InstantiationModelAwarePointcutAdvisor;
import org.springframework.aop.aspectj.annotation.AbstractAspectJAdvisorFactory.AspectJAnnotation;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

/**
 * Internal implementation of AspectJPointcutAdvisor.
 * Note that there will be one instance of this advisor for each target method.
 */

```

```

*
* @author Rod Johnson
* @author Juergen Hoeller
* @since 2.0
*/
class InstantiationModelAwarePointcutAdvisorImpl
    implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

    private final AspectJExpressionPointcut declaredPointcut;

    private Pointcut pointcut;

    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

    private final Method method;

    private final boolean lazy;

    private final AspectJAdvisorFactory atAspectJAdvisorFactory;

    private Advice instantiatedAdvice;

    private int declarationOrder;

    private String aspectName;

    private Boolean isBeforeAdvice = null;

    private Boolean isAfterAdvice = null;

    public InstantiationModelAwarePointcutAdvisorImpl(
        AspectJAdvisorFactory af,
        AspectJExpressionPointcut ajexp,
        MetadataAwareAspectInstanceFactory aif,
        Method method,
        int declarationOrderInAspect,
        String aspectName) {

        this.declaredPointcut = ajexp;
        this.method = method;
        this.atAspectJAdvisorFactory = af;
        this.aspectInstanceFactory = aif;
        this.declarationOrder = declarationOrderInAspect;
        this.aspectName = aspectName;

        if (aif.getAspectMetadata().isLazilyInstantiated()) {
            // Static part of the pointcut is a lazy type.

```

```

Pointcut preInstantiationPointcut =
    Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);

// Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
// If it's not a dynamic pointcut, it may be optimized out
// by the Spring AOP infrastructure after the first evaluation.
this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
this.lazy = true;
}
else {
// A singleton aspect.
this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
this.pointcut = declaredPointcut;
this.lazy = false;
}
}

/**
 * The pointcut for Spring AOP to use. Actual behaviour of the pointcut will change
 * depending on the state of the advice.
 */
public Pointcut getPointcut() {
return this.pointcut;
}

/**
 * This is only of interest for Spring AOP: AspectJ instantiation semantics
 * are much richer. In AspectJ terminology, all a return of <code>true</code>
 * means here is that the aspect is not a SINGLETON.
 */
public boolean isPerInstance() {
return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

/**
 * Return the AspectJ AspectMetadata for this advisor.
 */
public AspectMetadata getAspectMetadata() {
return this.aspectInstanceFactory.getAspectMetadata();
}

/**
 * Lazily instantiate advice if necessary.
 */
public synchronized Advice getAdvice() {
if (this.instantiatedAdvice == null) {
this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
}
}

```

```

    }
    return this.instantiatedAdvice;
}

public boolean isLazy() {
    return this.lazy;
}

public synchronized boolean isAdviceInstantiated() {
    return (this.instantiatedAdvice != null);
}

private Advice instantiateAdvice(AspectJExpressionPointcut pcut) {
    return this.atAspectJAdvisorFactory.getAdvice(
        this.method, pcut, this.aspectInstanceFactory, this.declarationOrder, this.aspectName);
}

public MetadataAwareAspectInstanceFactory getAspectInstanceFactory() {
    return this.aspectInstanceFactory;
}

public AspectJExpressionPointcut getDeclaredPointcut() {
    return this.declaredPointcut;
}

public int getOrder() {
    return this.aspectInstanceFactory.getOrder();
}

public String getAspectName() {
    return this.aspectName;
}

public int getDeclarationOrder() {
    return this.declarationOrder;
}

public boolean isBeforeAdvice() {
    if (this.isBeforeAdvice == null) {
        determineAdviceType();
    }
    return this.isBeforeAdvice;
}

public boolean isAfterAdvice() {
    if (this.isAfterAdvice == null) {
        determineAdviceType();
    }
}

```

```

    }
    return this.isAfterAdvice;
}

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
    AspectJAnnotation<?> aspectJAnnotation =
        AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
    if (aspectJAnnotation == null) {
        this.isBeforeAdvice = false;
        this.isAfterAdvice = false;
    }
    else {
        switch (aspectJAnnotation.getAnnotationType()) {
            case AtAfter:
            case AtAfterReturning:
            case AtAfterThrowing:
                this.isAfterAdvice = true;
                this.isBeforeAdvice = false;
                break;
            case AtAround:
            case AtPointcut:
                this.isAfterAdvice = false;
                this.isBeforeAdvice = false;
                break;
            case AtBefore:
                this.isAfterAdvice = false;
                this.isBeforeAdvice = true;
        }
    }
}

@Override
public String toString() {
    return "InstantiationModelAwarePointcutAdvisor: expression [" + getDeclaredPointcut().getExpression() +
        "]; advice method [" + this.method + "]; perClauseKind=" +
        this.aspectInstanceFactory.getAspectMetadata().getAjType().getPerClause().getKind();
}

/**
 * Pointcut implementation that changes its behaviour when the advice is instantiated.
 * Note that this is a <i>dynamic</i> pointcut. Otherwise it might

```

```

* be optimized out if it does not at first match statically.
*/
private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

    private final AspectJExpressionPointcut declaredPointcut;

    private final Pointcut preInstantiationPointcut;

    private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

    private PerTargetInstantiationModelPointcut(AspectJExpressionPointcut declaredPointcut,
        Pointcut preInstantiationPointcut, MetadataAwareAspectInstanceFactory aspectInstanceFactory) {
        this.declaredPointcut = declaredPointcut;
        this.preInstantiationPointcut = preInstantiationPointcut;
        if (aspectInstanceFactory instanceof LazySingletonAspectInstanceFactoryDecorator) {
            this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
        }
    }

    @Override
    public boolean matches(Method method, Class targetClass) {
        // We're either instantiated and matching on declared pointcut, or uninstantiated matching on either pointcut
        return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass)) ||
            this.preInstantiationPointcut.getMethodMatcher().matches(method, targetClass);
    }

    public boolean matches(Method method, Class targetClass, Object[] args) {
        // This can match only on declared pointcut.
        return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass));
    }

    private boolean isAspectMaterialized() {
        return (this.aspectInstanceFactory == null || this.aspectInstanceFactory.isMaterialized());
    }
}
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```

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```

package org.springframework.aop.aspectj.annotation;

import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.Order;

/**
 * Implementation of { @link MetadataAwareAspectInstanceFactory } that
 * creates a new instance of the specified aspect class for every
 * { @link #getAspectInstance() } call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {

    private final AspectMetadata metadata;

    /**
     * Create a new SimpleMetadataAwareAspectInstanceFactory for the given aspect class.
     * @param aspectClass the aspect class
     * @param aspectName the aspect name
     */
    public SimpleMetadataAwareAspectInstanceFactory(Class aspectClass, String aspectName) {
        super(aspectClass);
        this.metadata = new AspectMetadata(aspectClass, aspectName);
    }

    public final AspectMetadata getAspectMetadata() {
        return this.metadata;
    }

    /**
     * Determine a fallback order for the case that the aspect instance
     * does not express an instance-specific order through implementing
     * the { @link org.springframework.core.Ordered } interface.
     * <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
     * @param aspectClass the aspect class
     */
    protected int getOrderForAspectClass(Class aspectClass) {

```

```

    Order order = (Order) aspectClass.getAnnotation(Order.class);
    if (order != null) {
        return order.value();
    }
    return Ordered.LOWEST_PRECEDENCE;
}

}
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 */

package org.springframework.aop.aspectj;

import org.springframework.aop.framework.AopConfigException;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;

/**
 * Implementation of {@link AspectInstanceFactory} that creates a new instance
 * of the specified aspect class for every {@link #getAspectInstance()} call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

    private final Class aspectClass;

    /**
     * Create a new SimpleAspectInstanceFactory for the given aspect class.
     * @param aspectClass the aspect class
     */
    public SimpleAspectInstanceFactory(Class aspectClass) {
        Assert.notNull(aspectClass, "Aspect class must not be null");
    }

```

```

    this.aspectClass = aspectClass;
}

/**
 * Return the specified aspect class (never null).
 */
public final Class getAspectClass() {
    return this.aspectClass;
}

public final Object getAspectInstance() {
    try {
        return this.aspectClass.newInstance();
    }
    catch (InstantiationException ex) {
        throw new AopConfigException("Unable to instantiate aspect class [" + this.aspectClass.getName() + "]", ex);
    }
    catch (IllegalAccessException ex) {
        throw new AopConfigException("Cannot access element class [" + this.aspectClass.getName() + "]", ex);
    }
}

/**
 * Determine the order for this factory's aspect instance,
 * either an instance-specific order expressed through implementing
 * the {@link org.springframework.core.Ordered} interface,
 * or a fallback order.
 * @see org.springframework.core.Ordered
 * @see #getOrderForAspectClass
 */
public int getOrder() {
    return getOrderForAspectClass(this.aspectClass);
}

/**
 * Determine a fallback order for the case that the aspect instance
 * does not express an instance-specific order through implementing
 * the {@link org.springframework.core.Ordered} interface.
 * <p>The default implementation simply returns Ordered.LOWEST_PRECEDENCE.
 * @param aspectClass the aspect class
 */
protected int getOrderForAspectClass(Class aspectClass) {
    return Ordered.LOWEST_PRECEDENCE;
}
}

```

```

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 */

package org.springframework.aop.config;

import org.springframework.aop.aspectj.AspectInstanceFactory;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.core.Ordered;
import org.springframework.util.StringUtils;

/**
 * Implementation of { @link AspectInstanceFactory } that locates the aspect from the
 * { @link org.springframework.beans.factory.BeanFactory } using a configured bean name.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
BeanFactoryAware {

    private String aspectBeanName;

    private BeanFactory beanFactory;

    /**
     * Set the name of the aspect bean. This is the bean that is returned when calling
     * { @link #getAspectInstance() }.
     */
    public void setAspectBeanName(String aspectBeanName) {
        this.aspectBeanName = aspectBeanName;
    }
}

```

```

public void setBeanFactory(BeanFactory beanFactory) {
    this.beanFactory = beanFactory;
    if (!StringUtils.hasText(this.aspectBeanName)) {
        throw new IllegalArgumentException("aspectBeanName is required");
    }
}

/**
 * Look up the aspect bean from the {@link BeanFactory} and returns it.
 * @see #setAspectBeanName
 */
public Object getAspectInstance() {
    return this.beanFactory.getBean(this.aspectBeanName);
}

public int getOrder() {
    if (this.beanFactory.isSingleton(this.aspectBeanName) &&
        this.beanFactory.isTypeMatch(this.aspectBeanName, Ordered.class)) {
        return ((Ordered) this.beanFactory.getBean(this.aspectBeanName)).getOrder();
    }
    return Ordered.LOWEST_PRECEDENCE;
}

}

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 * limitations under the License.
 */

package org.springframework.aop.interceptor;

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;

/**
 * Simple AOP Alliance MethodInterceptor that can be introduced

```

```

* in a chain to display verbose trace information about intercepted method
* invocations, with method entry and method exit info.
*
* <p>Consider using <code>CustomizableTraceInterceptor</code> for more
* advanced needs. Note that <code>CustomizableTraceInterceptor</code>
* requires JDK 1.4 or later.
*
* @author Dmitriy Kopylenko
* @author Juergen Hoeller
* @since 1.2
* @see CustomizableTraceInterceptor
*/
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

    /**
     * Create a new SimpleTraceInterceptor with a static logger.
     */
    public SimpleTraceInterceptor() {
    }

    /**
     * Create a new SimpleTraceInterceptor with dynamic or static logger,
     * according to the given flag.
     * @param useDynamicLogger whether to use a dynamic logger or a static logger
     * @see #setUseDynamicLogger
     */
    public SimpleTraceInterceptor(boolean useDynamicLogger) {
        setUseDynamicLogger(useDynamicLogger);
    }

    protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
        String invocationDescription = getInvocationDescription(invocation);
        logger.trace("Entering " + invocationDescription);
        try {
            Object rval = invocation.proceed();
            logger.trace("Exiting " + invocationDescription);
            return rval;
        }
        catch (Throwable ex) {
            logger.trace("Exception thrown in " + invocationDescription, ex);
            throw ex;
        }
    }

    /**
     * Return a description for the given method invocation.
     * @param invocation the invocation to describe

```

```

* @return the description
*/
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method '" + invocation.getMethod().getName() + "' of class [" +
        invocation.getThis().getClass().getName() + "]";
}

}

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*/

package org.springframework.aop.target;

/**
* Simple {@link org.springframework.aop.TargetSource} implementation,
* freshly obtaining the specified target bean from its containing
* Spring {@link org.springframework.beans.factory.BeanFactory}.
*
* <p>Can obtain any kind of target bean: singleton, scoped, or prototype.
* Typically used for scoped beans.
*
* @author Juergen Hoeller
* @since 2.0.3
*/
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

    public Object getTarget() throws Exception {
        return getBeanFactory().getBean(getTargetBeanName());
    }

}

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```

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*/

```
package org.springframework.beans;
```

```
import java.beans.PropertyChangeEvent;  
import java.beans.PropertyDescriptor;  
import java.lang.reflect.Array;  
import java.lang.reflect.InvocationTargetException;  
import java.lang.reflect.Method;  
import java.lang.reflect.Modifier;  
import java.util.ArrayList;  
import java.util.HashMap;  
import java.util.Iterator;  
import java.util.List;  
import java.util.Map;  
import java.util.Set;
```

```
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;
```

```
import org.springframework.core.GenericCollectionTypeResolver;  
import org.springframework.core.JdkVersion;  
import org.springframework.core.MethodParameter;  
import org.springframework.util.Assert;  
import org.springframework.util.ObjectUtils;  
import org.springframework.util.StringUtils;
```

```
/**
```

```
* Default { @link BeanWrapper } implementation that should be sufficient  
* for all typical use cases. Caches introspection results for efficiency.  
*  
* <p>Note: Auto-registers default property editors from the  
* <code>org.springframework.beans.propertyeditors</code> package, which apply  
* in addition to the JDK's standard PropertyEditors. Applications can call  
* the { @link #registerCustomEditor(Class, java.beans.PropertyEditor) } method  
* to register an editor for a particular instance (i.e. they are not shared  
* across the application). See the base class  
* { @link PropertyEditorRegistrySupport } for details.
```

```

*
* <p><code>BeanWrapperImpl</code> will convert collection and array values
* to the corresponding target collections or arrays, if necessary. Custom
* property editors that deal with collections or arrays can either be
* written via PropertyEditor's <code>setValue</code>, or against a
* comma-delimited String via <code>setAsText</code>, as String arrays are
* converted in such a format if the array itself is not assignable.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @author Rob Harrop
* @since 15 April 2001
* @see #registerCustomEditor
* @see #setPropertyValues
* @see #setPropertyValue
* @see #getPropertyValue
* @see #getPropertyType
* @see BeanWrapper
* @see PropertyEditorRegistrySupport
*/
public class BeanWrapperImpl extends AbstractPropertyAccessor implements BeanWrapper {

    /**
     * We'll create a lot of these objects, so we don't want a new logger every time.
     */
    private static final Log logger = LoggerFactory.getLog(BeanWrapperImpl.class);

    /** The wrapped object */
    private Object object;

    private String nestedPath = "";

    private Object rootObject;

    private TypeConverterDelegate typeConverterDelegate;

    /**
     * Cached introspection results for this object, to prevent encountering
     * the cost of JavaBeans introspection every time.
     */
    private CachedIntrospectionResults cachedIntrospectionResults;

    /**
     * Map with cached nested BeanWrappers: nested path -> BeanWrapper instance.
     */
    private Map nestedBeanWrappers;

```

```

/**
 * Create new empty BeanWrapperImpl. Wrapped instance needs to be set afterwards.
 * Registers default editors.
 * @see #setWrappedInstance
 */
public BeanWrapperImpl() {
    this(true);
}

/**
 * Create new empty BeanWrapperImpl. Wrapped instance needs to be set afterwards.
 * @param registerDefaultEditors whether to register default editors
 * (can be suppressed if the BeanWrapper won't need any type conversion)
 * @see #setWrappedInstance
 */
public BeanWrapperImpl(boolean registerDefaultEditors) {
    if (registerDefaultEditors) {
        registerDefaultEditors();
    }
    this.typeConverterDelegate = new TypeConverterDelegate(this);
}

/**
 * Create new BeanWrapperImpl for the given object.
 * @param object object wrapped by this BeanWrapper
 */
public BeanWrapperImpl(Object object) {
    registerDefaultEditors();
    setWrappedInstance(object);
}

/**
 * Create new BeanWrapperImpl, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
public BeanWrapperImpl(Class clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create new BeanWrapperImpl for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this BeanWrapper
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */

```

```

public BeanWrapperImpl(Object object, String nestedPath, Object rootObject) {
    registerDefaultEditors();
    setWrappedInstance(object, nestedPath, rootObject);
}

/**
 * Create new BeanWrapperImpl for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this BeanWrapper
 * @param nestedPath the nested path of the object
 * @param superBw the containing BeanWrapper (must not be <code>null</code>)
 */
private BeanWrapperImpl(Object object, String nestedPath, BeanWrapperImpl superBw) {
    setWrappedInstance(object, nestedPath, superBw.getWrappedInstance());
    setExtractOldValueForEditor(superBw.isExtractOldValueForEditor());
}

//-----
// Implementation of BeanWrapper interface
//-----

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 */
public void setWrappedInstance(Object object) {
    setWrappedInstance(object, "", null);
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
public void setWrappedInstance(Object object, String nestedPath, Object rootObject) {
    Assert.notNull(object, "Bean object must not be null");
    this.object = object;
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!"".equals(this.nestedPath) ? rootObject : object);
    this.nestedBeanWrappers = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, object);
    setIntrospectionClass(object.getClass());
}

```

```

public final Object getWrappedInstance() {
    return this.object;
}

public final Class getWrappedClass() {
    return (this.object != null ? this.object.getClass() : null);
}

/**
 * Return the nested path of the object wrapped by this BeanWrapper.
 */
public final String getNestedPath() {
    return this.nestedPath;
}

/**
 * Return the root object at the top of the path of this BeanWrapper.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this BeanWrapper.
 * @see #getNestedPath
 */
public final Class getRootClass() {
    return (this.rootObject != null ? this.rootObject.getClass() : null);
}

/**
 * Set the class to introspect.
 * Needs to be called when the target object changes.
 * @param clazz the class to introspect
 */
protected void setIntrospectionClass(Class clazz) {
    if (this.cachedIntrospectionResults == null ||
        !this.cachedIntrospectionResults.getBeanClass().equals(clazz)) {
        this.cachedIntrospectionResults = CachedIntrospectionResults.forClass(clazz);
    }
}

public PropertyDescriptor[] getPropertyDescriptors() {
    Assert.state(this.cachedIntrospectionResults != null, "BeanWrapper does not hold a bean instance");
    return this.cachedIntrospectionResults.getBeanInfo().getPropertyDescriptors();
}

```

```

public PropertyDescriptor getPropertyDescriptor(String propertyName) throws BeansException {
    PropertyDescriptor pd = getPropertyDescriptorInternal(propertyName);
    if (pd == null) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "No property '" + propertyName + "' found");
    }
    return pd;
}

/**
 * Internal version of {@link #getPropertyDescriptor}:
 * Returns <code>null</code> if not found rather than throwing an exception.
 * @param propertyName the property to obtain the descriptor for
 * @return the property descriptor for the specified property,
 * or <code>null</code> if not found
 * @throws BeansException in case of introspection failure
 */
protected PropertyDescriptor getPropertyDescriptorInternal(String propertyName) throws BeansException {
    Assert.state(this.cachedIntrospectionResults != null, "BeanWrapper does not hold a bean instance");
    Assert.notNull(propertyName, "Property name must not be null");
    BeanWrapperImpl nestedBw = getBeanWrapperForPropertyPath(propertyName);
    return nestedBw.cachedIntrospectionResults.getPropertyDescriptor(getFinalPath(nestedBw, propertyName));
}

public Class getPropertyType(String propertyName) throws BeansException {
    try {
        PropertyDescriptor pd = getPropertyDescriptorInternal(propertyName);
        if (pd != null) {
            return pd.getPropertyType();
        }
        else {
            // Maybe an indexed/mapped property...
            Object value = getPropertyValue(propertyName);
            if (value != null) {
                return value.getClass();
            }
            // Check to see if there is a custom editor,
            // which might give an indication on the desired target type.
            Class editorType = guessPropertyTypeFromEditors(propertyName);
            if (editorType != null) {
                return editorType;
            }
        }
    }
    catch (InvalidPropertyException ex) {
        // Consider as not determinable.
    }
}

```

```

return null;
}

public boolean isReadableProperty(String propertyName) {
    try {
       PropertyDescriptor pd = getPropertyDescriptorInternal(propertyName);
        if (pd != null) {
            if (pd.getReadMethod() != null) {
                return true;
            }
        }
    } else {
        // Maybe an indexed/mapped property...
        getPropertyValue(propertyName);
        return true;
    }
} catch (InvalidPropertyException ex) {
    // Cannot be evaluated, so can't be readable.
}
return false;
}

```

```

public boolean isWritableProperty(String propertyName) {
    try {
       PropertyDescriptor pd = getPropertyDescriptorInternal(propertyName);
        if (pd != null) {
            if (pd.getWriteMethod() != null) {
                return true;
            }
        }
    } else {
        // Maybe an indexed/mapped property...
        getPropertyValue(propertyName);
        return true;
    }
} catch (InvalidPropertyException ex) {
    // Cannot be evaluated, so can't be writable.
}
return false;
}

```

```

//-----
// Implementation of TypeConverter interface
//-----

```

```

/**
 * @deprecated in favor of <code>convertIfNecessary</code>
 * @see #convertIfNecessary(Object, Class)
 */
public Object doTypeConversionIfNecessary(Object value, Class requiredType) throws TypeMismatchException {
    return convertIfNecessary(value, requiredType, null);
}

public Object convertIfNecessary(Object value, Class requiredType) throws TypeMismatchException {
    return convertIfNecessary(value, requiredType, null);
}

public Object convertIfNecessary(
    Object value, Class requiredType, MethodParameter methodParam) throws TypeMismatchException {
    try {
        return this.typeConverterDelegate.convertIfNecessary(value, requiredType, methodParam);
    }
    catch (IllegalArgumentException ex) {
        throw new TypeMismatchException(value, requiredType, ex);
    }
}

/**
 * Convert the given value for the specified property to the latter's type.
 * <p>This method is only intended for optimizations in a BeanFactory.
 * Use the <code>convertIfNecessary</code> methods for programmatic conversion.
 * @param value the value to convert
 * @param propertyName the target property
 * (note that nested or indexed properties are not supported here)
 * @return the new value, possibly the result of type conversion
 * @throws TypeMismatchException if type conversion failed
 */
public Object convertForProperty(Object value, String propertyName) throws TypeMismatchException {
    PropertyDescriptor pd = this.cachedIntrospectionResults.getPropertyDescriptor(propertyName);
    if (pd == null) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "No property '" + propertyName + "' found");
    }
    try {
        return this.typeConverterDelegate.convertIfNecessary(null, value, pd);
    }
    catch (IllegalArgumentException ex) {
        PropertyChangeEvent pce =
            new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, null, value);
        throw new TypeMismatchException(pce, pd.getPropertyType(), ex);
    }
}

```

```

//-----
// Implementation methods
//-----

/**
 * Get the last component of the path. Also works if not nested.
 * @param bw BeanWrapper to work on
 * @param nestedPath property path we know is nested
 * @return last component of the path (the property on the target bean)
 */
private String getFinalPath(BeanWrapper bw, String nestedPath) {
    if (bw == this) {
        return nestedPath;
    }
    return nestedPath.substring(PropertyAccessorUtils.getLastNestedPropertySeparatorIndex(nestedPath) + 1);
}

/**
 * Recursively navigate to return a BeanWrapper for the nested property path.
 * @param propertyPath property property path, which may be nested
 * @return a BeanWrapper for the target bean
 */
protected BeanWrapperImpl getBeanWrapperForPropertyPath(String propertyPath) {
    int pos = PropertyAccessorUtils.getFirstNestedPropertySeparatorIndex(propertyPath);
    // Handle nested properties recursively.
    if (pos > -1) {
        String nestedProperty = propertyPath.substring(0, pos);
        String nestedPath = propertyPath.substring(pos + 1);
        BeanWrapperImpl nestedBw = getNestedBeanWrapper(nestedProperty);
        return nestedBw.getBeanWrapperForPropertyPath(nestedPath);
    }
    else {
        return this;
    }
}

/**
 * Retrieve a BeanWrapper for the given nested property.
 * Create a new one if not found in the cache.
 * <p>Note: Caching nested BeanWrappers is necessary now,
 * to keep registered custom editors for nested properties.
 * @param nestedProperty property to create the BeanWrapper for
 * @return the BeanWrapper instance, either cached or newly created
 */
private BeanWrapperImpl getNestedBeanWrapper(String nestedProperty) {
    if (this.nestedBeanWrappers == null) {
        this.nestedBeanWrappers = new HashMap();
    }
}

```

```

    }
    // Get value of bean property.
    PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
    String canonicalName = tokens.canonicalName;
    Object propertyValue = getPropertyValue(tokens);
    if (propertyValue == null) {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
    }

    // Lookup cached sub-BeanWrapper, create new one if not found.
    BeanWrapperImpl nestedBw = (BeanWrapperImpl) this.nestedBeanWrappers.get(canonicalName);
    if (nestedBw == null || nestedBw.getWrappedInstance() != propertyValue) {
        if (logger.isTraceEnabled()) {
            logger.trace("Creating new nested BeanWrapper for property '" + canonicalName + "'");
        }
        nestedBw = newNestedBeanWrapper(propertyValue, this.nestedPath + canonicalName +
NESTED_PROPERTY_SEPARATOR);
        // Inherit all type-specific PropertyEditors.
        copyDefaultEditorsTo(nestedBw);
        copyCustomEditorsTo(nestedBw, canonicalName);
        this.nestedBeanWrappers.put(canonicalName, nestedBw);
    }
    else {
        if (logger.isTraceEnabled()) {
            logger.trace("Using cached nested BeanWrapper for property '" + canonicalName + "'");
        }
    }
    return nestedBw;
}

/**
 * Create a new nested BeanWrapper instance.
 * <p>Default implementation creates a BeanWrapperImpl instance.
 * Can be overridden in subclasses to create a BeanWrapperImpl subclass.
 * @param object object wrapped by this BeanWrapper
 * @param nestedPath the nested path of the object
 * @return the nested BeanWrapper instance
 */
protected BeanWrapperImpl newNestedBeanWrapper(Object object, String nestedPath) {
    return new BeanWrapperImpl(object, nestedPath, this);
}

/**
 * Parse the given property name into the corresponding property name tokens.
 * @param propertyName the property name to parse
 * @return representation of the parsed property tokens
 */
private PropertyTokenHolder getPropertyNameTokens(String propertyName) {

```

```

PropertyTokenHolder tokens = new PropertyTokenHolder();
String actualName = null;
List keys = new ArrayList(2);
int searchIndex = 0;
while (searchIndex != -1) {
    int keyStart = propertyName.indexOf(PROPERTY_KEY_PREFIX, searchIndex);
    searchIndex = -1;
    if (keyStart != -1) {
        int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart +
PROPERTY_KEY_PREFIX.length());
        if (keyEnd != -1) {
            if (actualName == null) {
                actualName = propertyName.substring(0, keyStart);
            }
            String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
            if ((key.startsWith("\"") && key.endsWith("\"")) || (key.startsWith("\'") && key.endsWith("\'"))) {
                key = key.substring(1, key.length() - 1);
            }
            keys.add(key);
            searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
        }
    }
}
tokens.actualName = (actualName != null ? actualName : propertyName);
tokens.canonicalName = tokens.actualName;
if (!keys.isEmpty()) {
    tokens.canonicalName +=
        PROPERTY_KEY_PREFIX +
        StringUtils.collectionToDelimitedString(keys, PROPERTY_KEY_SUFFIX + PROPERTY_KEY_PREFIX) +
        PROPERTY_KEY_SUFFIX;
    tokens.keys = StringUtils.toStringArray(keys);
}
return tokens;
}

```

```

//-----
// Implementation of PropertyAccessor interface
//-----

```

```

public Object getPropertyValue(String propertyName) throws BeansException {
    BeanWrapperImpl nestedBw = getBeanWrapperForPropertyPath(propertyName);
    PropertyTokenHolder tokens = getPropertyTokens(getFinalPath(nestedBw, propertyName));
    return nestedBw.getPropertyValue(tokens);
}

```

```

private Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    String propertyName = tokens.canonicalName;

```

```

String actualName = tokens.actualName;
PropertyDescriptor pd = this.cachedIntrospectionResults.getPropertyDescriptor(actualName);
if (pd == null || pd.getReadMethod() == null) {
    throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
}
Method readMethod = pd.getReadMethod();
try {
    if (!Modifier.isPublic(readMethod.getDeclaringClass().getModifiers())) {
        readMethod.setAccessible(true);
    }
    Object value = readMethod.invoke(this.object, (Object[]) null);
    if (tokens.keys != null) {
        // apply indexes and map keys
        for (int i = 0; i < tokens.keys.length; i++) {
            String key = tokens.keys[i];
            if (value == null) {
                throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                    "Cannot access indexed value of property referenced in indexed " +
                    "property path '" + propertyName + "': returned null");
            }
            else if (value.getClass().isArray()) {
                value = Array.get(value, Integer.parseInt(key));
            }
            else if (value instanceof List) {
                List list = (List) value;
                value = list.get(Integer.parseInt(key));
            }
            else if (value instanceof Set) {
                // Apply index to Iterator in case of a Set.
                Set set = (Set) value;
                int index = Integer.parseInt(key);
                if (index < 0 || index >= set.size()) {
                    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
                        "Cannot get element with index " + index + " from Set of size " +
                        set.size() + ", accessed using property path '" + propertyName + "'");
                }
                Iterator it = set.iterator();
                for (int j = 0; it.hasNext(); j++) {
                    Object elem = it.next();
                    if (j == index) {
                        value = elem;
                        break;
                    }
                }
            }
            else if (value instanceof Map) {
                Map map = (Map) value;
                Class mapKeyType = null;

```

```

if (JdkVersion.isAtLeastJava15()) {
    mapKeyType = GenericCollectionTypeResolver.getMapKeyReturnType(pd.getReadMethod(), i + 1);
}
// IMPORTANT: Do not pass full property name in here - property editors
// must not kick in for map keys but rather only for map values.
Object convertedMapKey = this.typeConverterDelegate.convertIfNecessary(key, mapKeyType);
// Pass full property name and old value in here, since we want full
// conversion ability for map values.
value = map.get(convertedMapKey);
}
else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Property referenced in indexed property path " + propertyName +
        " is neither an array nor a List nor a Set nor a Map; returned value was [" + value + "]");
}
}
}
return value;
}
catch (InvocationTargetException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Getter for property " + actualName + " threw exception", ex);
}
catch (IllegalAccessException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Illegal attempt to get property " + actualName + " threw exception", ex);
}
catch (IndexOutOfBoundsException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Index of out of bounds in property path " + propertyName + "", ex);
}
catch (NumberFormatException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Invalid index in property path " + propertyName + "", ex);
}
}
}

```

```

public void setPropertyValue(String propertyName, Object value) throws BeansException {
    BeanWrapperImpl nestedBw = null;
    try {
        nestedBw = getBeanWrapperForPropertyPath(propertyName);
    }
    catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
            "Nested property in path " + propertyName + " does not exist", ex);
    }
    PropertyTokenHolder tokens = getPropertyTokens(getFinalPath(nestedBw, propertyName));
    nestedBw.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

```

```

}

public void setPropertyValue(PropertyValue pv) throws BeansException {
    PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
    if (tokens == null) {
        String propertyName = pv.getName();
        BeanWrapperImpl nestedBw = null;
        try {
            nestedBw = getBeanWrapperForPropertyPath(propertyName);
        }
        catch (NotReadablePropertyException ex) {
            throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                "Nested property in path '" + propertyName + "' does not exist", ex);
        }
        tokens = getPropertyTokens(getFinalPath(nestedBw, propertyName));
        if (nestedBw == this) {
            pv.getOriginalPropertyValue().resolvedTokens = tokens;
        }
        nestedBw.setPropertyValue(tokens, pv);
    }
    else {
        setPropertyValue(tokens, pv);
    }
}

private void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
    String propertyName = tokens.canonicalName;
    String actualName = tokens.actualName;

    if (tokens.keys != null) {
        // Apply indexes and map keys: fetch value for all keys but the last one.
        PropertyTokenHolder getterTokens = new PropertyTokenHolder();
        getterTokens.canonicalName = tokens.canonicalName;
        getterTokens.actualName = tokens.actualName;
        getterTokens.keys = new String[tokens.keys.length - 1];
        System.arraycopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);
        Object propValue = null;
        try {
            propValue = getPropertyValue(getterTokens);
        }
        catch (NotReadablePropertyException ex) {
            throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                "Cannot access indexed value in property referenced " +
                "in indexed property path '" + propertyName + "'", ex);
        }
        // Set value for last key.
        String key = tokens.keys[tokens.keys.length - 1];
        if (propValue == null) {

```

```

throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
    "Cannot access indexed value in property referenced " +
    "in indexed property path " + propertyName + ": returned null");
}
else if (propValue.getClass().isArray()) {
    Class requiredType = propValue.getClass().getComponentType();
    int arrayIndex = Integer.parseInt(key);
    Object oldValue = null;
    try {
        if (isExtractOldValueForEditor()) {
            oldValue = Array.get(propValue, arrayIndex);
        }
        Object convertedValue = this.typeConverterDelegate.convertIfNecessary(
            propertyName, oldValue, pv.getValue(), requiredType);
        Array.set(propValue, Integer.parseInt(key), convertedValue);
    }
    catch (IllegalArgumentException ex) {
        PropertyChangeEvent pce =
            new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, pv.getValue());
        throw new TypeMismatchException(pce, requiredType, ex);
    }
    catch (IndexOutOfBoundsException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Invalid array index in property path " + propertyName + "", ex);
    }
}
else if (propValue instanceof List) {
    PropertyDescriptor pd = this.cachedIntrospectionResults.getPropertyDescriptor(actualName);
    Class requiredType = null;
    if (JdkVersion.isAtLeastJava15()) {
        requiredType = GenericCollectionTypeResolver.getCollectionReturnTypes(
            pd.getReadMethod(), tokens.keys.length);
    }
    List list = (List) propValue;
    int index = Integer.parseInt(key);
    Object oldValue = null;
    if (isExtractOldValueForEditor() && index < list.size()) {
        oldValue = list.get(index);
    }
    try {
        Object convertedValue = this.typeConverterDelegate.convertIfNecessary(
            propertyName, oldValue, pv.getValue(), requiredType);
        if (index < list.size()) {
            list.set(index, convertedValue);
        }
        else if (index >= list.size()) {
            for (int i = list.size(); i < index; i++) {
                try {

```

```

    list.add(null);
  }
  catch (NullPointerException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
      "Cannot set element with index " + index + " in List of size " +
      list.size() + ", accessed using property path '" + propertyName +
      "': List does not support filling up gaps with null elements");
  }
}
list.add(convertedValue);
}
}
catch (IllegalArgumentException ex) {
  PropertyChangeEvent pce =
    new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, pv.getValue());
  throw new TypeMismatchException(pce, requiredType, ex);
}
}
else if (propValue instanceof Map) {
  PropertyDescriptor pd = this.cachedIntrospectionResults.getPropertyDescriptor(actualName);
  Class mapKeyType = null;
  Class mapValueType = null;
  if (JdkVersion.isAtLeastJava15()) {
    mapKeyType = GenericCollectionTypeResolver.getMapKeyReturnType(
      pd.getReadMethod(), tokens.keys.length);
    mapValueType = GenericCollectionTypeResolver.getMapValueReturnType(
      pd.getReadMethod(), tokens.keys.length);
  }
  Map map = (Map) propValue;
  Object convertedMapKey = null;
  Object convertedMapValue = null;
  try {
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    convertedMapKey = this.typeConverterDelegate.convertIfNecessary(key, mapKeyType);
  }
  catch (IllegalArgumentException ex) {
    PropertyChangeEvent pce =
      new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, null, pv.getValue());
    throw new TypeMismatchException(pce, mapKeyType, ex);
  }
  Object oldValue = null;
  if (isExtractOldValueForEditor()) {
    oldValue = map.get(convertedMapKey);
  }
  try {
    // Pass full property name and old value in here, since we want full
    // conversion ability for map values.

```

```

convertedMapValue = this.typeConverterDelegate.convertIfNecessary(
    propertyName, oldValue, pv.getValue(), mapValueType, null,
    new MethodParameter(pd.getReadMethod(), -1, tokens.keys.length + 1));
}
catch (IllegalArgumentException ex) {
    PropertyChangeEvent pce =
        new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, pv.getValue());
    throw new TypeMismatchException(pce, mapValueType, ex);
}
map.put(convertedMapKey, convertedMapValue);
}
else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Property referenced in indexed property path '" + propertyName +
        "' is neither an array nor a List nor a Map; returned value was [" + pv.getValue() + "]");
}
}

else {
    PropertyDescriptor pd = this.cachedIntrospectionResults.getPropertyDescriptor(actualName);
    if (pd == null || pd.getWriteMethod() == null) {
        PropertyMatches matches = PropertyMatches.forProperty(propertyName, getRootClass());
        throw new NotWritablePropertyException(
            getRootClass(), this.nestedPath + propertyName,
            matches.buildErrorMessage(), matches.getPossibleMatches());
    }

    Object oldValue = null;
    if (isExtractOldValueForEditor() && pd.getReadMethod() != null) {
        Method readMethod = pd.getReadMethod();
        if (!Modifier.isPublic(readMethod.getDeclaringClass().getModifiers())) {
            readMethod.setAccessible(true);
        }
        try {
            oldValue = readMethod.invoke(this.object, new Object[0]);
        }
        catch (Exception ex) {
            if (logger.isDebugEnabled()) {
                logger.debug("Could not read previous value of property '" + this.nestedPath + propertyName + "'", ex);
            }
        }
    }

    try {
        Object convertedValue = (pv.isConverted() ? pv.getConvertedValue() :
            this.typeConverterDelegate.convertIfNecessary(oldValue, pv.getValue(), pd));
        Method writeMethod = pd.getWriteMethod();
        if (!Modifier.isPublic(writeMethod.getDeclaringClass().getModifiers())) {

```

```

        writeMethod.setAccessible(true);
    }
    writeMethod.invoke(this.object, new Object[] {convertedValue});
}
catch (InvocationTargetException ex) {
    PropertyChangeEvent propertyChangeEvent =
        new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, pv.getValue());
    if (ex.getTargetException() instanceof ClassCastException) {
        throw new TypeMismatchException(propertyChangeEvent, pd.getPropertyType(), ex.getTargetException());
    }
    else {
        throw new MethodInvocationException(propertyChangeEvent, ex.getTargetException());
    }
}
catch (IllegalArgumentException ex) {
    PropertyChangeEvent pce =
        new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, pv.getValue());
    throw new TypeMismatchException(pce, pd.getPropertyType(), ex);
}
catch (IllegalAccessException ex) {
    PropertyChangeEvent pce =
        new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, pv.getValue());
    throw new MethodInvocationException(pce, ex);
}
}
}
}

```

```

public String toString() {
    StringBuffer sb = new StringBuffer(getClass().getName());
    if (this.object != null) {
        sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.object)).append("]");
    }
    else {
        sb.append(": no wrapped object set");
    }
    return sb.toString();
}

```

```

//-----
// Inner class for internal use
//-----

```

```

private static class PropertyTokenHolder {

    public String canonicalName;
}

```

```

public String actualName;

public String[] keys;
}

}

```

1.132 Spring Framework: JDBC 2.0.8

1.132.1 Available under license :

```

/*
 * Copyright 2002-2007 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
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 * http://www.apache.org/licenses/LICENSE-2.0
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.springframework.jdbc.core;

import java.lang.reflect.InvocationHandler;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.lang.reflect.Proxy;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.SQLWarning;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;

```

```
import org.springframework.dao.InvalidDataAccessApiUsageException;
import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.SQLWarningException;
import org.springframework.jdbc.datasource.ConnectionProxy;
import org.springframework.jdbc.datasource.DataSourceUtils;
import org.springframework.jdbc.support.JdbcAccessor;
import org.springframework.jdbc.support.JdbcUtils;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor;
import org.springframework.jdbc.support.rowset.SqlRowSet;
import org.springframework.util.Assert;
```

```
/**
```

```
 * <b>This is the central class in the JDBC core package.</b>
```

```
 * It simplifies the use of JDBC and helps to avoid common errors.
```

```
 * It executes core JDBC workflow, leaving application code to provide SQL
```

```
 * and extract results. This class executes SQL queries or updates, initiating
```

```
 * iteration over ResultSets and catching JDBC exceptions and translating
```

```
 * them to the generic, more informative exception hierarchy defined in the
```

```
 * <code>org.springframework.dao</code> package.
```

```
 *
```

```
 * <p>Code using this class need only implement callback interfaces, giving
```

```
 * them a clearly defined contract. The { @link PreparedStatementCreator } callback
```

```
 * interface creates a prepared statement given a Connection, providing SQL and
```

```
 * any necessary parameters. The { @link ResultSetExtractor } interface extracts
```

```
 * values from a ResultSet. See also { @link PreparedStatementSetter } and
```

```
 * { @link RowMapper } for two popular alternative callback interfaces.
```

```
 *
```

```
 * <p>Can be used within a service implementation via direct instantiation
```

```
 * with a DataSource reference, or get prepared in an application context
```

```
 * and given to services as bean reference. Note: The DataSource should
```

```
 * always be configured as a bean in the application context, in the first case
```

```
 * given to the service directly, in the second case to the prepared template.
```

```
 *
```

```
 * <p>Because this class is parameterizable by the callback interfaces and
```

```
 * the { @link org.springframework.jdbc.support.SQLExceptionTranslator }
```

```
 * interface, there should be no need to subclass it.
```

```
 *
```

```
 * <p>All SQL operations performed by this class are logged at debug level,
```

```
 * using "org.springframework.jdbc.core.JdbcTemplate" as log category.
```

```
 *
```

```
 * @author Rod Johnson
```

```
 * @author Juergen Hoeller
```

```
 * @author Thomas Risberg
```

```
 * @since May 3, 2001
```

```
 * @see PreparedStatementCreator
```

```
 * @see PreparedStatementSetter
```

```
 * @see CallableStatementCreator
```

```

* @see PreparedStatementCallback
* @see CallableStatementCallback
* @see ResultSetExtractor
* @see RowCallbackHandler
* @see RowMapper
* @see org.springframework.jdbc.support.SQLExceptionTranslator
*/
public class JdbcTemplate extends JdbcAccessor implements JdbcOperations {

    /** Custom NativeJdbcExtractor */
    private NativeJdbcExtractor nativeJdbcExtractor;

    /** If this variable is false, we will throw exceptions on SQL warnings */
    private boolean ignoreWarnings = true;

    /**
     * If this variable is set to a non-zero value, it will be used for setting the
     * fetchSize property on statements used for query processing.
     */
    private int fetchSize = 0;

    /**
     * If this variable is set to a non-zero value, it will be used for setting the
     * maxRows property on statements used for query processing.
     */
    private int maxRows = 0;

    /**
     * If this variable is set to a non-zero value, it will be used for setting the
     * queryTimeout property on statements used for query processing.
     */
    private int queryTimeout = 0;

    /**
     * If this variable is set to true then all results checking will be bypassed for any
     * callable statement processing. This can be used to avoid a bug in some older Oracle
     * JDBC drivers like 10.1.0.2.
     */
    private boolean skipResultsProcessing = false;

    /**
     * Construct a new JdbcTemplate for bean usage.
     * <p>Note: The DataSource has to be set before using the instance.
     * @see #setDataSource
     */
    public JdbcTemplate() {
    }
}

```

```

/**
 * Construct a new JdbcTemplate, given a DataSource to obtain connections from.
 * <p>Note: This will not trigger initialization of the exception translator.
 * @param dataSource the JDBC DataSource to obtain connections from
 */
public JdbcTemplate(DataSource dataSource) {
    setDataSource(dataSource);
    afterPropertiesSet();
}

/**
 * Construct a new JdbcTemplate, given a DataSource to obtain connections from.
 * <p>Note: Depending on the "lazyInit" flag, initialization of the exception translator
 * will be triggered.
 * @param dataSource the JDBC DataSource to obtain connections from
 * @param lazyInit whether to lazily initialize the SQLExceptionTranslator
 */
public JdbcTemplate(DataSource dataSource, boolean lazyInit) {
    setDataSource(dataSource);
    setLazyInit(lazyInit);
    afterPropertiesSet();
}

/**
 * Set a NativeJdbcExtractor to extract native JDBC objects from wrapped handles.
 * Useful if native Statement and/or ResultSet handles are expected for casting
 * to database-specific implementation classes, but a connection pool that wraps
 * JDBC objects is used (note: <i>any</i> pool will return wrapped Connections).
 */
public void setNativeJdbcExtractor(NativeJdbcExtractor extractor) {
    this.nativeJdbcExtractor = extractor;
}

/**
 * Return the current NativeJdbcExtractor implementation.
 */
public NativeJdbcExtractor getNativeJdbcExtractor() {
    return this.nativeJdbcExtractor;
}

/**
 * Set whether or not we want to ignore SQLWarnings.
 * <p>Default is "true", swallowing and logging all warnings. Switch this flag
 * to "false" to make the JdbcTemplate throw a SQLWarningException instead.
 * @see java.sql.SQLWarning
 * @see org.springframework.jdbc.SQLWarningException

```

```

* @see #handleWarnings
*/
public void setIgnoreWarnings(boolean ignoreWarnings) {
    this.ignoreWarnings = ignoreWarnings;
}

/**
 * Return whether or not we ignore SQLWarnings.
 */
public boolean isIgnoreWarnings() {
    return this.ignoreWarnings;
}

/**
 * Set the fetch size for this JdbcTemplate. This is important for processing
 * large result sets: Setting this higher than the default value will increase
 * processing speed at the cost of memory consumption; setting this lower can
 * avoid transferring row data that will never be read by the application.
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * @see java.sql.Statement#setFetchSize
 */
public void setFetchSize(int fetchSize) {
    this.fetchSize = fetchSize;
}

/**
 * Return the fetch size specified for this JdbcTemplate.
 */
public int getFetchSize() {
    return this.fetchSize;
}

/**
 * Set the maximum number of rows for this JdbcTemplate. This is important
 * for processing subsets of large result sets, avoiding to read and hold
 * the entire result set in the database or in the JDBC driver if we're
 * never interested in the entire result in the first place (for example,
 * when performing searches that might return a large number of matches).
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * @see java.sql.Statement#setMaxRows
 */
public void setMaxRows(int maxRows) {
    this.maxRows = maxRows;
}

/**
 * Return the maximum number of rows specified for this JdbcTemplate.
 */

```

```

public int getMaxRows() {
    return this.maxRows;
}

/**
 * Set the query timeout for statements that this JdbcTemplate executes.
 * <p>Default is 0, indicating to use the JDBC driver's default.
 * <p>Note: Any timeout specified here will be overridden by the remaining
 * transaction timeout when executing within a transaction that has a
 * timeout specified at the transaction level.
 * @see java.sql.Statement#setQueryTimeout
 */
public void setQueryTimeout(int queryTimeout) {
    this.queryTimeout = queryTimeout;
}

/**
 * Return the query timeout for statements that this JdbcTemplate executes.
 */
public int getQueryTimeout() {
    return this.queryTimeout;
}

/**
 * Set whether results processing should be skipped. Can be used to optimize callable
 * statement processing when we know that no results are being passed back - the processing
 * of out parameter will still take place. This can be used to avoid a bug in some older
 * Oracle JDBC drivers like 10.1.0.2.
 */
public void setSkipResultsProcessing(boolean skipResultsProcessing) {
    this.skipResultsProcessing = skipResultsProcessing;
}

/**
 * Return whether results processing should be skipped.
 */
public boolean isSkipResultsProcessing() {
    return this.skipResultsProcessing;
}

//-----
// Methods dealing with a plain java.sql.Connection
//-----

public Object execute(ConnectionCallback action) throws DataAccessException {
    Assert.notNull(action, "Callback object must not be null");
}

```

```

Connection con = DataSourceUtils.getConnection(getDataSource());
try {
    Connection conToUse = con;
    if (this.nativeJdbcExtractor != null) {
        // Extract native JDBC Connection, castable to OracleConnection or the like.
        conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
    }
    else {
        // Create close-suppressing Connection proxy, also preparing returned Statements.
        conToUse = createConnectionProxy(con);
    }
    return action.doInConnection(conToUse);
}
catch (SQLException ex) {
    // Release Connection early, to avoid potential connection pool deadlock
    // in the case when the exception translator hasn't been initialized yet.
    DataSourceUtils.releaseConnection(con, getDataSource());
    con = null;
    throw getExceptionTranslator().translate("ConnectionCallback", getSql(action), ex);
}
finally {
    DataSourceUtils.releaseConnection(con, getDataSource());
}
}

/**
 * Create a close-suppressing proxy for the given JDBC Connection.
 * Called by the <code>execute</code> method.
 * <p>The proxy also prepares returned JDBC Statements, applying
 * statement settings such as fetch size, max rows, and query timeout.
 * @param con the JDBC Connection to create a proxy for
 * @return the Connection proxy
 * @see java.sql.Connection#close()
 * @see #execute(ConnectionCallback)
 * @see #applyStatementSettings
 */
protected Connection createConnectionProxy(Connection con) {
    return (Connection) Proxy.newProxyInstance(
        ConnectionProxy.class.getClassLoader(),
        new Class[] {ConnectionProxy.class},
        new CloseSuppressingInvocationHandler(con));
}

//-----
// Methods dealing with static SQL (java.sql.Statement)
//-----

```

```

public Object execute(StatementCallback action) throws DataAccessException {
    Assert.notNull(action, "Callback object must not be null");

    Connection con = DataSourceUtils.getConnection(getDataSource());
    Statement stmt = null;
    try {
        Connection conToUse = con;
        if (this.nativeJdbcExtractor != null &&
            this.nativeJdbcExtractor.isNativeConnectionNecessaryForNativeStatements()) {
            conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
        }
        stmt = conToUse.createStatement();
        applyStatementSettings(stmt);
        Statement stmtToUse = stmt;
        if (this.nativeJdbcExtractor != null) {
            stmtToUse = this.nativeJdbcExtractor.getNativeStatement(stmt);
        }
        Object result = action.doInStatement(stmtToUse);
        handleWarnings(stmt.getWarnings());
        return result;
    }
    catch (SQLException ex) {
        // Release Connection early, to avoid potential connection pool deadlock
        // in the case when the exception translator hasn't been initialized yet.
        JdbcUtils.closeStatement(stmt);
        stmt = null;
        DataSourceUtils.releaseConnection(con, getDataSource());
        con = null;
        throw getExceptionTranslator().translate("StatementCallback", getSql(action), ex);
    }
    finally {
        JdbcUtils.closeStatement(stmt);
        DataSourceUtils.releaseConnection(con, getDataSource());
    }
}

public void execute(final String sql) throws DataAccessException {
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL statement [" + sql + "]);
    }
}

class ExecuteStatementCallback implements StatementCallback, SqlProvider {
    public Object doInStatement(Statement stmt) throws SQLException {
        stmt.execute(sql);
        return null;
    }
    public String getSql() {
        return sql;
    }
}

```

```

    }
    }
    execute(new ExecuteStatementCallback());
}

public Object query(final String sql, final ResultSetExtractor rse) throws DataAccessException {
    Assert.notNull(sql, "SQL must not be null");
    Assert.notNull(rse, "ResultSetExtractor must not be null");
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL query [" + sql + "]");
    }

    class QueryStatementCallback implements StatementCallback, SqlProvider {
        public Object doInStatement(Statement stmt) throws SQLException {
            ResultSet rs = null;
            try {
                rs = stmt.executeQuery(sql);
                ResultSet rsToUse = rs;
                if (nativeJdbcExtractor != null) {
                    rsToUse = nativeJdbcExtractor.getNativeResultSet(rs);
                }
                return rse.extractData(rsToUse);
            }
            finally {
                JdbcUtils.closeResultSet(rs);
            }
        }
        public String getSql() {
            return sql;
        }
    }
    return execute(new QueryStatementCallback());
}

public void query(String sql, RowCallbackHandler rch) throws DataAccessException {
    query(sql, new RowCallbackHandlerResultSetExtractor(rch));
}

public List query(String sql, RowMapper rowMapper) throws DataAccessException {
    return (List) query(sql, new RowMapperResultSetExtractor(rowMapper));
}

public Map queryForMap(String sql) throws DataAccessException {
    return (Map) queryForObject(sql, getColumnMapRowMapper());
}

public Object queryForObject(String sql, RowMapper rowMapper) throws DataAccessException {
    List results = query(sql, rowMapper);

```

```

return DataAccessUtils.requiredSingleResult(results);
}

public Object queryForObject(String sql, Class requiredType) throws DataAccessException {
return queryForObject(sql, getSingleColumnRowMapper(requiredType));
}

public long queryForLong(String sql) throws DataAccessException {
Number number = (Number) queryForObject(sql, Long.class);
return (number != null ? number.longValue() : 0);
}

public int queryForInt(String sql) throws DataAccessException {
Number number = (Number) queryForObject(sql, Integer.class);
return (number != null ? number.intValue() : 0);
}

public List queryForList(String sql, Class elementType) throws DataAccessException {
return query(sql, getSingleColumnRowMapper(elementType));
}

public List queryForList(String sql) throws DataAccessException {
return query(sql, getColumnMapRowMapper());
}

public SqlRowSet queryForRowSet(String sql) throws DataAccessException {
return (SqlRowSet) query(sql, new SqlRowSetResultSetExtractor());
}

public int update(final String sql) throws DataAccessException {
Assert.notNull(sql, "SQL must not be null");
if (logger.isDebugEnabled()) {
logger.debug("Executing SQL update [" + sql + "]");
}
}

class UpdateStatementCallback implements StatementCallback, SqlProvider {
public Object doInStatement(Statement stmt) throws SQLException {
int rows = stmt.executeUpdate(sql);
if (logger.isDebugEnabled()) {
logger.debug("SQL update affected " + rows + " rows");
}
return new Integer(rows);
}
public String getSql() {
return sql;
}
}

return ((Integer) execute(new UpdateStatementCallback())).intValue();

```

```

}

public int[] batchUpdate(final String[] sql) throws DataAccessException {
    Assert.notEmpty(sql, "SQL array must not be empty");
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL batch update of " + sql.length + " statements");
    }

    class BatchUpdateStatementCallback implements StatementCallback, SqlProvider {
        private String currSql;
        public Object doInStatement(Statement stmt) throws SQLException, DataAccessException {
            int[] rowsAffected = new int[sql.length];
            if (JdbcUtils.supportsBatchUpdates(stmt.getConnection())) {
                for (int i = 0; i < sql.length; i++) {
                    this.currSql = sql[i];
                    stmt.addBatch(sql[i]);
                }
                rowsAffected = stmt.executeBatch();
            }
            else {
                for (int i = 0; i < sql.length; i++) {
                    this.currSql = sql[i];
                    if (!stmt.execute(sql[i])) {
                        rowsAffected[i] = stmt.getUpdateCount();
                    }
                    else {
                        throw new InvalidDataAccessApiUsageException("Invalid batch SQL statement: " + sql[i]);
                    }
                }
            }
            return rowsAffected;
        }
        public String getSql() {
            return currSql;
        }
    }

    return (int[]) execute(new BatchUpdateStatementCallback());
}

//-----
// Methods dealing with prepared statements
//-----

public Object execute(PreparedStatementCreator psc, PreparedStatementCallback action)
    throws DataAccessException {

    Assert.notNull(psc, "PreparedStatementCreator must not be null");

```

```

Assert.notNull(action, "Callback object must not be null");
if (logger.isDebugEnabled()) {
    String sql = getSql(psc);
    logger.debug("Executing prepared SQL statement" + (sql != null ? " [" + sql + "]" : ""));
}

Connection con = DataSourceUtils.getConnection(getDataSource());
PreparedStatement ps = null;
try {
    Connection conToUse = con;
    if (this.nativeJdbcExtractor != null &&
        this.nativeJdbcExtractor.isNativeConnectionNecessaryForNativePreparedStatements()) {
        conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
    }
    ps = psc.createPreparedStatement(conToUse);
    applyStatementSettings(ps);
    PreparedStatement psToUse = ps;
    if (this.nativeJdbcExtractor != null) {
        psToUse = this.nativeJdbcExtractor.getNativePreparedStatement(ps);
    }
    Object result = action.doInPreparedStatement(psToUse);
    handleWarnings(ps.getWarnings());
    return result;
}
catch (SQLException ex) {
    // Release Connection early, to avoid potential connection pool deadlock
    // in the case when the exception translator hasn't been initialized yet.
    if (psc instanceof ParameterDisposer) {
        ((ParameterDisposer) psc).cleanupParameters();
    }
    String sql = getSql(psc);
    psc = null;
    JdbcUtils.closeStatement(ps);
    ps = null;
    DataSourceUtils.releaseConnection(con, getDataSource());
    con = null;
    throw getExceptionTranslator().translate("PreparedStatementCallback", sql, ex);
}
finally {
    if (psc instanceof ParameterDisposer) {
        ((ParameterDisposer) psc).cleanupParameters();
    }
    JdbcUtils.closeStatement(ps);
    DataSourceUtils.releaseConnection(con, getDataSource());
}
}

public Object execute(String sql, PreparedStatementCallback action) throws DataAccessException {

```

```

return execute(new SimplePreparedStatementCreator(sql), action);
}

/**
 * Query using a prepared statement, allowing for a PreparedStatementCreator
 * and a PreparedStatementSetter. Most other query methods use this method,
 * but application code will always work with either a creator or a setter.
 * @param psc Callback handler that can create a PreparedStatement given a
 * Connection
 * @param pss object that knows how to set values on the prepared statement.
 * If this is null, the SQL will be assumed to contain no bind parameters.
 * @param rse object that will extract results.
 * @return an arbitrary result object, as returned by the ResultSetExtractor
 * @throws DataAccessException if there is any problem
 */
public Object query(
    PreparedStatementCreator psc, final PreparedStatementSetter pss, final ResultSetExtractor rse)
    throws DataAccessException {

    Assert.notNull(rse, "ResultSetExtractor must not be null");
    logger.debug("Executing prepared SQL query");

    return execute(psc, new PreparedStatementCallback() {
        public Object doInPreparedStatement(PreparedStatement ps) throws SQLException {
            ResultSet rs = null;
            try {
                if (pss != null) {
                    pss.setValues(ps);
                }
                rs = ps.executeQuery();
                ResultSet rsToUse = rs;
                if (nativeJdbcExtractor != null) {
                    rsToUse = nativeJdbcExtractor.getNativeResultSet(rs);
                }
                return rse.extractData(rsToUse);
            }
            finally {
                JdbcUtils.closeResultSet(rs);
                if (pss instanceof ParameterDisposer) {
                    ((ParameterDisposer) pss).cleanupParameters();
                }
            }
        }
    });
}

public Object query(PreparedStatementCreator psc, ResultSetExtractor rse) throws DataAccessException {
    return query(psc, null, rse);
}

```

```

}

public Object query(String sql, PreparedStatementSetter pss, ResultSetExtractor rse) throws DataAccessException {
    return query(new SimplePreparedStatementCreator(sql), pss, rse);
}

public Object query(String sql, Object[] args, int[] argTypes, ResultSetExtractor rse) throws DataAccessException {
    return query(sql, new ArgTypePreparedStatementSetter(args, argTypes), rse);
}

public Object query(String sql, Object[] args, ResultSetExtractor rse) throws DataAccessException {
    return query(sql, new ArgPreparedStatementSetter(args), rse);
}

public void query(PreparedStatementCreator psc, RowCallbackHandler rch) throws DataAccessException {
    query(psc, new RowCallbackHandlerResultSetExtractor(rch));
}

public void query(String sql, PreparedStatementSetter pss, RowCallbackHandler rch) throws DataAccessException {
    query(sql, pss, new RowCallbackHandlerResultSetExtractor(rch));
}

public void query(String sql, Object[] args, int[] argTypes, RowCallbackHandler rch) throws DataAccessException {
    query(sql, new ArgTypePreparedStatementSetter(args, argTypes), rch);
}

public void query(String sql, Object[] args, RowCallbackHandler rch) throws DataAccessException {
    query(sql, new ArgPreparedStatementSetter(args), rch);
}

public List query(PreparedStatementCreator psc, RowMapper rowMapper) throws DataAccessException {
    return (List) query(psc, new RowMapperResultSetExtractor(rowMapper));
}

public List query(String sql, PreparedStatementSetter pss, RowMapper rowMapper) throws DataAccessException {
    return (List) query(sql, pss, new RowMapperResultSetExtractor(rowMapper));
}

public List query(String sql, Object[] args, int[] argTypes, RowMapper rowMapper) throws DataAccessException {
    return (List) query(sql, args, argTypes, new RowMapperResultSetExtractor(rowMapper));
}

public List query(String sql, Object[] args, RowMapper rowMapper) throws DataAccessException {
    return (List) query(sql, args, new RowMapperResultSetExtractor(rowMapper));
}

```

```

public Object queryForObject(String sql, Object[] args, int[] argTypes, RowMapper rowMapper)
    throws DataAccessException {

    List results = (List) query(sql, args, argTypes, new RowMapperResultSetExtractor(rowMapper, 1));
    return DataAccessUtils.requiredSingleResult(results);
}

public Object queryForObject(String sql, Object[] args, RowMapper rowMapper) throws DataAccessException {
    List results = (List) query(sql, args, new RowMapperResultSetExtractor(rowMapper, 1));
    return DataAccessUtils.requiredSingleResult(results);
}

public Object queryForObject(String sql, Object[] args, int[] argTypes, Class requiredType)
    throws DataAccessException {

    return queryForObject(sql, args, argTypes, getSingleColumnRowMapper(requiredType));
}

public Object queryForObject(String sql, Object[] args, Class requiredType) throws DataAccessException {
    return queryForObject(sql, args, getSingleColumnRowMapper(requiredType));
}

public Map queryForMap(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return (Map) queryForObject(sql, args, argTypes, getColumnMapRowMapper());
}

public Map queryForMap(String sql, Object[] args) throws DataAccessException {
    return (Map) queryForObject(sql, args, getColumnMapRowMapper());
}

public long queryForLong(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    Number number = (Number) queryForObject(sql, args, argTypes, Long.class);
    return (number != null ? number.longValue() : 0);
}

public long queryForLong(String sql, Object[] args) throws DataAccessException {
    Number number = (Number) queryForObject(sql, args, Long.class);
    return (number != null ? number.longValue() : 0);
}

public int queryForInt(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    Number number = (Number) queryForObject(sql, args, argTypes, Integer.class);
    return (number != null ? number.intValue() : 0);
}

public int queryForInt(String sql, Object[] args) throws DataAccessException {
    Number number = (Number) queryForObject(sql, args, Integer.class);
    return (number != null ? number.intValue() : 0);
}

```

```

}

public List queryForList(String sql, Object[] args, int[] argTypes, Class elementType) throws DataAccessException
{
    return query(sql, args, argTypes, getSingleColumnRowMapper(elementType));
}

public List queryForList(String sql, Object[] args, Class elementType) throws DataAccessException {
    return query(sql, args, getSingleColumnRowMapper(elementType));
}

public List queryForList(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return query(sql, args, argTypes, getColumnMapRowMapper());
}

public List queryForList(String sql, Object[] args) throws DataAccessException {
    return query(sql, args, getColumnMapRowMapper());
}

public SqlRowSet queryForRowSet(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return (SqlRowSet) query(sql, args, argTypes, new SqlRowSetResultSetExtractor());
}

public SqlRowSet queryForRowSet(String sql, Object[] args) throws DataAccessException {
    return (SqlRowSet) query(sql, args, new SqlRowSetResultSetExtractor());
}

protected int update(final PreparedStatementCreator psc, final PreparedStatementSetter pss)
    throws DataAccessException {

    logger.debug("Executing prepared SQL update");

    Integer result = (Integer) execute(psc, new PreparedStatementCallback() {
        public Object doInPreparedStatement(PreparedStatement ps) throws SQLException {
            try {
                if (pss != null) {
                    pss.setValues(ps);
                }
                int rows = ps.executeUpdate();
                if (logger.isDebugEnabled()) {
                    logger.debug("SQL update affected " + rows + " rows");
                }
                return new Integer(rows);
            }
            finally {
                if (pss instanceof ParameterDisposer) {
                    ((ParameterDisposer) pss).cleanupParameters();
                }
            }
        }
    });
}

```

```

    }
    }
});
return result.intValue();
}

public int update(PreparedStatementCreator psc) throws DataAccessException {
    return update(psc, (PreparedStatementSetter) null);
}

public int update(final PreparedStatementCreator psc, final KeyHolder generatedKeyHolder)
    throws DataAccessException {

    Assert.notNull(generatedKeyHolder, "KeyHolder must not be null");
    logger.debug("Executing SQL update and returning generated keys");

    Integer result = (Integer) execute(psc, new PreparedStatementCallback() {
        public Object doInPreparedStatement(PreparedStatement ps) throws SQLException {
            int rows = ps.executeUpdate();
            List generatedKeys = generatedKeyHolder.getKeyList();
            generatedKeys.clear();
            ResultSet keys = ps.getGeneratedKeys();
            if (keys != null) {
                try {
                    RowMapper rowMapper = getColumnMapRowMapper();
                    RowMapperResultSetExtractor rse = new RowMapperResultSetExtractor(rowMapper, 1);
                    generatedKeys.addAll((List) rse.extractData(keys));
                }
                finally {
                    JdbcUtils.closeResultSet(keys);
                }
            }
            if (logger.isDebugEnabled()) {
                logger.debug("SQL update affected " + rows + " rows and returned " + generatedKeys.size() + " keys");
            }
            return new Integer(rows);
        }
    });
    return result.intValue();
}

public int update(String sql, PreparedStatementSetter pss) throws DataAccessException {
    return update(new SimplePreparedStatementCreator(sql), pss);
}

public int update(String sql, Object[] args, int[] argTypes) throws DataAccessException {
    return update(sql, new ArgTypePreparedStatementSetter(args, argTypes));
}

```

```

public int update(String sql, Object[] args) throws DataAccessException {
    return update(sql, new ArgPreparedStatementSetter(args));
}

public int[] batchUpdate(String sql, final BatchPreparedStatementSetter pss) throws DataAccessException {
    if (logger.isDebugEnabled()) {
        logger.debug("Executing SQL batch update [" + sql + "]");
    }

    return (int[]) execute(sql, new PreparedStatementCallback() {
        public Object doInPreparedStatement(PreparedStatement ps) throws SQLException {
            try {
                int batchSize = pss.getBatchSize();
                InterruptibleBatchPreparedStatementSetter ipss =
                    (pss instanceof InterruptibleBatchPreparedStatementSetter ?
                     (InterruptibleBatchPreparedStatementSetter) pss : null);
                if (JdbcUtils.supportsBatchUpdates(ps.getConnection())) {
                    for (int i = 0; i < batchSize; i++) {
                        pss.setValues(ps, i);
                        if (ipss != null && ipss.isBatchExhausted(i)) {
                            break;
                        }
                    }
                    ps.addBatch();
                }
                return ps.executeBatch();
            }
            else {
                List rowsAffected = new ArrayList();
                for (int i = 0; i < batchSize; i++) {
                    pss.setValues(ps, i);
                    if (ipss != null && ipss.isBatchExhausted(i)) {
                        break;
                    }
                }
                rowsAffected.add(new Integer(ps.executeUpdate()));
            }
            int[] rowsAffectedArray = new int[rowsAffected.size()];
            for (int i = 0; i < rowsAffectedArray.length; i++) {
                rowsAffectedArray[i] = ((Integer) rowsAffected.get(i)).intValue();
            }
            return rowsAffectedArray;
        }
    });
    finally {
        if (pss instanceof ParameterDisposer) {
            ((ParameterDisposer) pss).cleanupParameters();
        }
    }
}

```

```

    }
    });
}

//-----
// Methods dealing with callable statements
//-----

public Object execute(CallableStatementCreator csc, CallableStatementCallback action)
    throws DataAccessException {

    Assert.notNull(csc, "CallableStatementCreator must not be null");
    Assert.notNull(action, "Callback object must not be null");
    if (logger.isDebugEnabled()) {
        String sql = getSql(csc);
        logger.debug("Calling stored procedure" + (sql != null ? " [" + sql + "]" : ""));
    }

    Connection con = DataSourceUtils.getConnection(getDataSource());
    CallableStatement cs = null;
    try {
        Connection conToUse = con;
        if (this.nativeJdbcExtractor != null) {
            conToUse = this.nativeJdbcExtractor.getNativeConnection(con);
        }
        cs = csc.createCallableStatement(conToUse);
        applyStatementSettings(cs);
        CallableStatement csToUse = cs;
        if (this.nativeJdbcExtractor != null) {
            csToUse = this.nativeJdbcExtractor.getNativeCallableStatement(cs);
        }
        Object result = action.doInCallableStatement(csToUse);
        handleWarnings(cs.getWarnings());
        return result;
    }
    catch (SQLException ex) {
        // Release Connection early, to avoid potential connection pool deadlock
        // in the case when the exception translator hasn't been initialized yet.
        if (csc instanceof ParameterDisposer) {
            ((ParameterDisposer) csc).cleanupParameters();
        }
        String sql = getSql(csc);
        cs = null;
        JdbcUtils.closeStatement(cs);
        cs = null;
        DataSourceUtils.releaseConnection(con, getDataSource());
        con = null;
    }
}

```

```

        throw getExceptionTranslator().translate("CallableStatementCallback", sql, ex);
    }
    finally {
        if (csc instanceof ParameterDisposer) {
            ((ParameterDisposer) csc).cleanupParameters();
        }
        JdbcUtils.closeStatement(cs);
        DataSourceUtils.releaseConnection(con, getDataSource());
    }
}

public Object execute(String callString, CallableStatementCallback action) throws DataAccessException {
    return execute(new SimpleCallableStatementCreator(callString), action);
}

public Map call(CallableStatementCreator csc, final List declaredParameters) throws DataAccessException {
    return (Map) execute(csc, new CallableStatementCallback() {
        public Object doInCallableStatement(CallableStatement cs) throws SQLException {
            boolean retVal = cs.execute();
            int updateCount = cs.getUpdateCount();
            if (logger.isDebugEnabled()) {
                logger.debug("CallableStatement.execute() returned '" + retVal + "'");
                logger.debug("CallableStatement.getUpdateCount() returned " + updateCount);
            }
            Map returnedResults = new HashMap();
            if (retVal || updateCount != -1) {
                returnedResults.putAll(extractReturnedResultSets(cs, declaredParameters, updateCount));
            }
            returnedResults.putAll(extractOutputParameters(cs, declaredParameters));
            return returnedResults;
        }
    });
}

/**
 * Extract returned ResultSets from the completed stored procedure.
 * @param cs JDBC wrapper for the stored procedure
 * @param parameters Parameter list for the stored procedure
 * @return Map that contains returned results
 */
protected Map extractReturnedResultSets(CallableStatement cs, List parameters, int updateCount)
    throws SQLException {

    Map returnedResults = new HashMap();
    int rsIndex = 0;
    boolean moreResults;
    if (!skipResultsProcessing) {
        do {

```

```

if (updateCount == -1) {
    Object param = null;
    if (parameters != null && parameters.size() > rsIndex) {
        param = parameters.get(rsIndex);
    }
    if (param instanceof SqlReturnResultSet) {
        SqlReturnResultSet rsParam = (SqlReturnResultSet) param;
        returnedResults.putAll(processResultSet(cs.getResultSet(), rsParam));
    }
    else {
        logger.warn("Results returned from stored procedure but a corresponding " +
            "SqlOutParameter/SqlReturnResultSet parameter was not declared");
    }
    rsIndex++;
}
moreResults = cs.getMoreResults();
updateCount = cs.getUpdateCount();
if (logger.isDebugEnabled()) {
    logger.debug("CallableStatement.getUpdateCount() returned " + updateCount);
}
}
while (moreResults || updateCount != -1);
}
return returnedResults;
}

/**
 * Extract output parameters from the completed stored procedure.
 * @param cs JDBC wrapper for the stored procedure
 * @param parameters parameter list for the stored procedure
 * @return Map that contains returned results
 */
protected Map extractOutputParameters(CallableStatement cs, List parameters) throws SQLException {
    Map returnedResults = new HashMap();
    int sqlColIndex = 1;
    for (int i = 0; i < parameters.size(); i++) {
        Object param = parameters.get(i);
        if (param instanceof SqlOutParameter) {
            SqlOutParameter outParam = (SqlOutParameter) param;
            if (outParam.isReturnTypeSupported()) {
                Object out = outParam.getSqlReturnType().getTypeValue(
                    cs, sqlColIndex, outParam.getSqlType(), outParam.getTypeName());
                returnedResults.put(outParam.getName(), out);
            }
            else {
                Object out = cs.getObject(sqlColIndex);
                if (out instanceof ResultSet) {
                    if (outParam.isResultSetSupported()) {

```

```

        returnedResults.putAll(processResultSet((ResultSet) out, outParam));
    }
    else {
        logger.warn("ResultSet returned from stored procedure but no corresponding SqlOutParameter " +
            "with a ResultSetExtractor/RowCallbackHandler/RowMapper declared");
        returnedResults.put(outParam.getName(), "ResultSet was returned but not processed");
    }
}
else {
    returnedResults.put(outParam.getName(), out);
}
}
}
if (!(param instanceof SqlReturnResultSet)) {
    sqlColIndex++;
}
}
return returnedResults;
}

/**
 * Process the given ResultSet from a stored procedure.
 * @param rs the ResultSet to process
 * @param param the corresponding stored procedure parameter
 * @return Map that contains returned results
 */
protected Map processResultSet(ResultSet rs, ResultSetSupportingSqlParameter param) throws SQLException {
    Map returnedResults = new HashMap();
    try {
        ResultSet rsToUse = rs;
        if (this.nativeJdbcExtractor != null) {
            rsToUse = this.nativeJdbcExtractor.getNativeResultSet(rs);
        }
        if (param.getRowMapper() != null) {
            RowMapper rowMapper = param.getRowMapper();
            Object result = (new RowMapperResultSetExtractor(rowMapper)).extractData(rsToUse);
            returnedResults.put(param.getName(), result);
        }
        else if (param.getRowCallbackHandler() != null) {
            RowCallbackHandler rch = param.getRowCallbackHandler();
            (new RowCallbackHandlerResultSetExtractor(rch)).extractData(rsToUse);
            returnedResults.put(param.getName(), "ResultSet returned from stored procedure was processed");
        }
        else if (param.getResultSetExtractor() != null) {
            Object result = param.getResultSetExtractor().extractData(rsToUse);
            returnedResults.put(param.getName(), result);
        }
    }
}

```

```

finally {
    JdbcUtils.closeResultSet(rs);
}
return returnedResults;
}

//-----
// Implementation hooks and helper methods
//-----

/**
 * Create a new RowMapper for reading columns as key-value pairs.
 * @return the RowMapper to use
 * @see ColumnMapRowMapper
 */
protected RowMapper getColumnMapRowMapper() {
    return new ColumnMapRowMapper();
}

/**
 * Create a new RowMapper for reading result objects from a single column.
 * @param requiredType the type that each result object is expected to match
 * @return the RowMapper to use
 * @see SingleColumnRowMapper
 */
protected RowMapper getSingleColumnRowMapper(Class requiredType) {
    return new SingleColumnRowMapper(requiredType);
}

/**
 * Prepare the given JDBC Statement (or PreparedStatement or CallableStatement),
 * applying statement settings such as fetch size, max rows, and query timeout.
 * @param stmt the JDBC Statement to prepare
 * @throws SQLException if thrown by JDBC API
 * @see #setFetchSize
 * @see #setMaxRows
 * @see #setQueryTimeout
 * @see org.springframework.jdbc.datasource.DataSourceUtils#applyTransactionTimeout
 */
protected void applyStatementSettings(Statement stmt) throws SQLException {
    int fetchSize = getFetchSize();
    if (fetchSize > 0) {
        stmt.setFetchSize(fetchSize);
    }
    int maxRows = getMaxRows();
    if (maxRows > 0) {
        stmt.setMaxRows(maxRows);
    }
}

```

```

    }
    DataSourceUtils.applyTimeout(stmt, getDataSource(), getQueryTimeout());
}

/**
 * Throw an SQLWarningException if we're not ignoring warnings,
 * else log the warnings (at debug level).
 * @param warning the warnings object from the current statement.
 * May be <code>null</code>, in which case this method does nothing.
 * @throws SQLWarningException if not ignoring warnings
 * @see org.springframework.jdbc.SQLWarningException
 */
protected void handleWarnings(SQLWarning warning) throws SQLWarningException {
    if (warning != null) {
        if (isIgnoreWarnings()) {
            if (logger.isDebugEnabled()) {
                SQLWarning warningToLog = warning;
                while (warningToLog != null) {
                    logger.debug("SQLWarning ignored: SQL state '" + warningToLog.getSQLState() + "', error code '" +
                        warningToLog.getErrorCode() + "', message ['" + warningToLog.getMessage() + "']");
                    warningToLog = warningToLog.getNextWarning();
                }
            }
        }
        else {
            throw new SQLWarningException("Warning not ignored", warning);
        }
    }
}

/**
 * Determine SQL from potential provider object.
 * @param sqlProvider object that's potentially a SqlProvider
 * @return the SQL string, or <code>null</code>
 * @see SqlProvider
 */
private static String getSql(Object sqlProvider) {
    if (sqlProvider instanceof SqlProvider) {
        return ((SqlProvider) sqlProvider).getSql();
    }
    else {
        return null;
    }
}

/**
 * Invocation handler that suppresses close calls on JDBC Connections.

```

```

* Also prepares returned Statement (Prepared/CallbackStatement) objects.
* @see java.sql.Connection#close()
*/
private class CloseSuppressingInvocationHandler implements InvocationHandler {

    private final Connection target;

    public CloseSuppressingInvocationHandler(Connection target) {
        this.target = target;
    }

    public Object invoke(Object proxy, Method method, Object[] args) throws Throwable {
        // Invocation on ConnectionProxy interface coming in...

        if (method.getName().equals("getTargetConnection")) {
            // Handle getTargetConnection method: return underlying Connection.
            return this.target;
        }
        else if (method.getName().equals("equals")) {
            // Only consider equal when proxies are identical.
            return (proxy == args[0] ? Boolean.TRUE : Boolean.FALSE);
        }
        else if (method.getName().equals("hashCode")) {
            // Use hashCode of PersistenceManager proxy.
            return new Integer(hashCode());
        }
        else if (method.getName().equals("close")) {
            // Handle close method: suppress, not valid.
            return null;
        }

        // Invoke method on target Connection.
        try {
            Object retVal = method.invoke(this.target, args);

            // If return value is a JDBC Statement, apply statement settings
            // (fetch size, max rows, transaction timeout).
            if (retVal instanceof Statement) {
                applyStatementSettings(((Statement) retVal));
            }

            return retVal;
        }
        catch (InvocationTargetException ex) {
            throw ex.getTargetException();
        }
    }
}

```

```

/**
 * Simple adapter for PreparedStatementCreator, allowing to use a plain SQL statement.
 */
private static class SimplePreparedStatementCreator implements PreparedStatementCreator, SqlProvider {

    private final String sql;

    public SimplePreparedStatementCreator(String sql) {
        Assert.notNull(sql, "SQL must not be null");
        this.sql = sql;
    }

    public PreparedStatement createPreparedStatement(Connection con) throws SQLException {
        return con.prepareStatement(this.sql);
    }

    public String getSql() {
        return this.sql;
    }
}

```

```

/**
 * Simple adapter for CallableStatementCreator, allowing to use a plain SQL statement.
 */
private static class SimpleCallableStatementCreator implements CallableStatementCreator, SqlProvider {

    private final String callString;

    public SimpleCallableStatementCreator(String callString) {
        Assert.notNull(callString, "Call string must not be null");
        this.callString = callString;
    }

    public CallableStatement createCallableStatement(Connection con) throws SQLException {
        return con.prepareCall(this.callString);
    }

    public String getSql() {
        return this.callString;
    }
}

```

```

/**
 * Adapter to enable use of a RowCallbackHandler inside a ResultSetExtractor.

```

```

* <p>Uses a regular ResultSet, so we have to be careful when using it:
* We don't use it for navigating since this could lead to unpredictable consequences.
*/
private static class RowCallbackHandlerResultSetExtractor implements ResultSetExtractor {

    private final RowCallbackHandler rch;

    public RowCallbackHandlerResultSetExtractor(RowCallbackHandler rch) {
        this.rch = rch;
    }

    public Object extractData(ResultSet rs) throws SQLException {
        while (rs.next()) {
            this.rch.processRow(rs);
        }
        return null;
    }
}

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* limitations under the License.
*/

package org.springframework.jdbc.core.namedparam;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.core.ColumnMapRowMapper;
import org.springframework.jdbc.core.JdbcOperations;

```

```

import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.PreparedStatementCallback;
import org.springframework.jdbc.core.PreparedStatementCreator;
import org.springframework.jdbc.core.PreparedStatementCreatorFactory;
import org.springframework.jdbc.core.ResultSetExtractor;
import org.springframework.jdbc.core.RowCallbackHandler;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.SingleColumnRowMapper;
import org.springframework.jdbc.core.SqlRowSetResultSetExtractor;
import org.springframework.jdbc.support.KeyHolder;
import org.springframework.jdbc.support.rowset.SqlRowSet;
import org.springframework.util.Assert;

/**
 * Template class with a basic set of JDBC operations, allowing the use
 * of named parameters rather than traditional '?' placeholders.
 *
 * <p>This class delegates to a wrapped { @link #getJdbcOperations() JdbcTemplate }
 * once the substitution from named parameters to JDBC style '?' placeholders is
 * done at execution time. It also allows for expanding a { @link java.util.List }
 * of values to the appropriate number of placeholders.
 *
 * <p>The underlying { @link org.springframework.jdbc.core.JdbcTemplate } is
 * exposed to allow for convenient access to the traditional
 * { @link org.springframework.jdbc.core.JdbcTemplate } methods.
 *
 * @author Thomas Risberg
 * @author Juergen Hoeller
 * @since 2.0
 * @see NamedParameterJdbcOperations
 * @see org.springframework.jdbc.core.JdbcTemplate
 */
public class NamedParameterJdbcTemplate implements NamedParameterJdbcOperations {

    /** The JdbcTemplate we are wrapping */
    private final JdbcTemplate classicJdbcTemplate;

    /** Map of original SQL String to ParsedSql representation */
    private final Map parsedSqlCache = new HashMap();

    /**
     * Create a new NamedParameterJdbcTemplate for the given { @link DataSource }.
     * <p>Creates a classic Spring { @link org.springframework.jdbc.core.JdbcTemplate } and wraps it.
     * @param dataSource the JDBC DataSource to access
     */
    public NamedParameterJdbcTemplate(DataSource dataSource) {
        Assert.notNull(dataSource, "The [dataSource] argument cannot be null.");
    }

```

```

this.classicJdbcTemplate = new JdbcTemplate(dataSource);
}

/**
 * Create a new NamedParameterJdbcTemplate for the given classic
 * Spring { @link org.springframework.jdbc.core.JdbcTemplate }.
 * @param classicJdbcTemplate the classic Spring JdbcTemplate to wrap
 */
public NamedParameterJdbcTemplate(JdbcOperations classicJdbcTemplate) {
    Assert.notNull(classicJdbcTemplate, "JdbcTemplate must not be null");
    this.classicJdbcTemplate = classicJdbcTemplate;
}

/**
 * Expose the classic Spring JdbcTemplate to allow invocation of
 * less commonly used methods.
 */
public JdbcOperations getJdbcOperations() {
    return this.classicJdbcTemplate;
}

public Object execute(String sql, SqlParameterSource paramSource, PreparedStatementCallback action)
    throws DataAccessException {

    return getJdbcOperations().execute(getPreparedStatementCreator(sql, paramSource), action);
}

public Object execute(String sql, Map paramMap, PreparedStatementCallback action) throws DataAccessException
{
    return execute(sql, new MapSqlParameterSource(paramMap), action);
}

public Object query(String sql, SqlParameterSource paramSource, ResultSetExtractor rse)
    throws DataAccessException {

    return getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rse);
}

public Object query(String sql, Map paramMap, ResultSetExtractor rse) throws DataAccessException {
    return query(sql, new MapSqlParameterSource(paramMap), rse);
}

public void query(String sql, SqlParameterSource paramSource, RowCallbackHandler rch)
    throws DataAccessException {

    getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rch);
}

```

```

public void query(String sql, Map paramMap, RowCallbackHandler rch) throws DataAccessException {
    query(sql, new MapSqlParameterSource(paramMap), rch);
}

public List query(String sql, SqlParameterSource paramSource, RowMapper rowMapper)
    throws DataAccessException {

    return getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rowMapper);
}

public List query(String sql, Map paramMap, RowMapper rowMapper) throws DataAccessException {
    return query(sql, new MapSqlParameterSource(paramMap), rowMapper);
}

public Object queryForObject(String sql, SqlParameterSource paramSource, RowMapper rowMapper)
    throws DataAccessException {

    List results = getJdbcOperations().query(getPreparedStatementCreator(sql, paramSource), rowMapper);
    return DataAccessUtils.requiredSingleResult(results);
}

public Object queryForObject(String sql, Map paramMap, RowMapper rowMapper) throws DataAccessException {
    return queryForObject(sql, new MapSqlParameterSource(paramMap), rowMapper);
}

public Object queryForObject(String sql, SqlParameterSource paramSource, Class requiredType)
    throws DataAccessException {

    return queryForObject(sql, paramSource, new SingleColumnRowMapper(requiredType));
}

public Object queryForObject(String sql, Map paramMap, Class requiredType) throws DataAccessException {
    return queryForObject(sql, paramMap, new SingleColumnRowMapper(requiredType));
}

public Map queryForMap(String sql, SqlParameterSource paramSource) throws DataAccessException {
    return (Map) queryForObject(sql, paramSource, new ColumnMapRowMapper());
}

public Map queryForMap(String sql, Map paramMap) throws DataAccessException {
    return (Map) queryForObject(sql, paramMap, new ColumnMapRowMapper());
}

public long queryForLong(String sql, SqlParameterSource paramSource) throws DataAccessException {
    Number number = (Number) queryForObject(sql, paramSource, Number.class);
    return (number != null ? number.longValue() : 0);
}

```

```

public long queryForLong(String sql, Map paramMap) throws DataAccessException {
    return queryForLong(sql, new MapSqlParameterSource(paramMap));
}

public int queryForInt(String sql, SqlParameterSource paramSource) throws DataAccessException {
    Number number = (Number) queryForObject(sql, paramSource, Number.class);
    return (number != null ? number.intValue() : 0);
}

public int queryForInt(String sql, Map paramMap) throws DataAccessException {
    return queryForInt(sql, new MapSqlParameterSource(paramMap));
}

public List queryForList(String sql, SqlParameterSource paramSource, Class elementType)
    throws DataAccessException {
    return query(sql, paramSource, new SingleColumnRowMapper(elementType));
}

public List queryForList(String sql, Map paramMap, Class elementType) throws DataAccessException {
    return queryForList(sql, new MapSqlParameterSource(paramMap), elementType);
}

public List queryForList(String sql, SqlParameterSource paramSource) throws DataAccessException {
    return query(sql, paramSource, new ColumnMapRowMapper());
}

public List queryForList(String sql, Map paramMap) throws DataAccessException {
    return queryForList(sql, new MapSqlParameterSource(paramMap));
}

public SqlRowSet queryForRowSet(String sql, SqlParameterSource paramSource) throws DataAccessException {
    return (SqlRowSet) getJdbcOperations().query(
        getPreparedStatementCreator(sql, paramSource), new SqlRowSetResultSetExtractor());
}

public SqlRowSet queryForRowSet(String sql, Map paramMap) throws DataAccessException {
    return queryForRowSet(sql, new MapSqlParameterSource(paramMap));
}

public int update(String sql, SqlParameterSource paramSource) throws DataAccessException {
    return getJdbcOperations().update(getPreparedStatementCreator(sql, paramSource));
}

public int update(String sql, Map paramMap) throws DataAccessException {
    return update(sql, new MapSqlParameterSource(paramMap));
}

```

```

public int update(String sql, SqlParameterSource paramSource, KeyHolder generatedKeyHolder)
    throws DataAccessException {

    return update(sql, paramSource, generatedKeyHolder, null);
}

public int update(
    String sql, SqlParameterSource paramSource, KeyHolder generatedKeyHolder, String[] keyColumnNames)
    throws DataAccessException {

    ParsedSql parsedSql = getParsedSql(sql);
    String sqlToUse = NamedParameterUtils.substituteNamedParameters(parsedSql, paramSource);
    Object[] params = NamedParameterUtils.buildValueArray(parsedSql, paramSource, null);
    int[] paramTypes = NamedParameterUtils.buildSqlTypeArray(parsedSql, paramSource);
    PreparedStatementCreatorFactory pscf = new PreparedStatementCreatorFactory(sqlToUse, paramTypes);
    if (keyColumnNames != null) {
        pscf.setGeneratedKeysColumnNames(keyColumnNames);
    }
    else {
        pscf.setReturnGeneratedKeys(true);
    }
    return getJdbcOperations().update(pscf.newPreparedStatementCreator(params), generatedKeyHolder);
}

/**
 * Build a PreparedStatementCreator based on the given SQL and named parameters.
 * <p>Note: Not used for the <code>update</code> variant with generated key handling.
 * @param sql SQL to execute
 * @param paramSource container of arguments to bind
 * @return the corresponding PreparedStatementCreator
 */
protected PreparedStatementCreator getPreparedStatementCreator(String sql, SqlParameterSource paramSource) {
    ParsedSql parsedSql = getParsedSql(sql);
    String sqlToUse = NamedParameterUtils.substituteNamedParameters(parsedSql, paramSource);
    Object[] params = NamedParameterUtils.buildValueArray(parsedSql, paramSource, null);
    int[] paramTypes = NamedParameterUtils.buildSqlTypeArray(parsedSql, paramSource);
    PreparedStatementCreatorFactory pscf = new PreparedStatementCreatorFactory(sqlToUse, paramTypes);
    return pscf.newPreparedStatementCreator(params);
}

/**
 * Obtain a parsed representation of the given SQL statement.
 * @param sql the original SQL
 * @return a representation of the parsed SQL statement
 */
protected ParsedSql getParsedSql(String sql) {
    synchronized (this.parsedSqlCache) {

```

```

    ParsedSql parsedSql = (ParsedSql) this.parsedSqlCache.get(sql);
    if (parsedSql == null) {
        parsedSql = NamedParameterUtils.parseSqlStatement(sql);
        this.parsedSqlCache.put(sql, parsedSql);
    }
    return parsedSql;
}
}

}
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 * limitations under the License.
 */

package org.springframework.jdbc.core.simple;

import org.springframework.jdbc.core.support.JdbcDaoSupport;

/**
 * Extension of { @link org.springframework.jdbc.core.support.JdbcDaoSupport }
 * that exposes a { @link #getSimpleJdbcTemplate() SimpleJdbcTemplate } as well.
 * Only usable on Java 5 and above.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 * @see SimpleJdbcTemplate
 */
public class SimpleJdbcDaoSupport extends JdbcDaoSupport {

    private SimpleJdbcTemplate simpleJdbcTemplate;

    /**
     * Create a SimpleJdbcTemplate based on the configured JdbcTemplate.
     */

```

```

protected void initTemplateConfig() {
    this.simpleJdbcTemplate = new SimpleJdbcTemplate(getJdbcTemplate());
}

/**
 * Return a SimpleJdbcTemplate wrapping the configured JdbcTemplate.
 */
public SimpleJdbcTemplate getSimpleJdbcTemplate() {
    return this.simpleJdbcTemplate;
}

}

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 * limitations under the License.
 */

package org.springframework.jdbc.core.simple;

import java.util.List;
import java.util.Map;

import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.JdbcOperations;

/**
 * JDBC operations nterface usable on Java 5 and above, exposing a
 * set of common JDBC operations, whose interface is simplified
 * through the use of varargs and autoboxing.
 *
 * @author Rod Johnson
 * @author Rob Harrop
 * @since 2.0
 * @see SimpleJdbcTemplate
 * @see org.springframework.jdbc.core.JdbcOperations
 */
public interface SimpleJdbcOperations {

```

```

/**
 * Expose the classic Spring JdbcTemplate to allow invocation of less
 * commonly used methods.
 */
JdbcOperations getJdbcOperations();

/**
 * Query for an int passing in a SQL query and a variable
 * number of arguments.
 */
int queryForInt(String sql, Object... args) throws DataAccessException;

/**
 * Query for an long passing in a SQL query and a variable
 * number of arguments.
 */
long queryForLong(String sql, Object... args) throws DataAccessException;

/**
 * Query for an object of type T identified by the supplied @link Class.
 * @param sql the SQL query to run.
 * @param requiredType the required type of the return value.
 * @param args the args for the query.
 * @see JdbcOperations#queryForObject(String, Class)
 * @see JdbcOperations#queryForObject(String, Object[], Class)
 */
<T> T queryForObject(String sql, Class<T> requiredType, Object... args) throws DataAccessException;

/**
 * Query for an object of type T using the supplied
 * @link ParameterizedRowMapper to the query results to the object.
 * @param sql the SQL query to run.
 * @param rm the @link ParameterizedRowMapper to use for result mapping
 * @param args the args for the query.
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)
 * @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
 */
<T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Object... args) throws DataAccessException;

/**
 * Query for a @link List of Objects of type T using
 * the supplied @link ParameterizedRowMapper to the query results to the object.
 * @param sql the SQL query to run.
 * @param rm the @link ParameterizedRowMapper to use for result mapping
 * @param args the args for the query.
 * @see JdbcOperations#queryForObject(String, org.springframework.jdbc.core.RowMapper)

```

```

* @see JdbcOperations#queryForObject(String, Object[], org.springframework.jdbc.core.RowMapper)
*/
<T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Object... args) throws DataAccessException;

/**
 * Execute the supplied query with the (optional) supplied arguments.
 * <p>The query is expected to be a single row query; the result row will be
 * mapped to a Map (one entry for each column, using the column name as the key).
 * @see JdbcOperations#queryForMap(String)
 * @see JdbcOperations#queryForMap(String, Object[])
 */
Map<String, Object> queryForMap(String sql, Object... args) throws DataAccessException;

/**
 * Execute the supplied query with the (optional) supplied arguments.
 * <p>Each element in the returned { @link List } is constructed as a { @link Map }
 * as described in { @link #queryForMap }
 * @see JdbcOperations#queryForList(String)
 * @see JdbcOperations#queryForList(String, Object[])
 */
List<Map<String, Object>> queryForList(String sql, Object... args) throws DataAccessException;

/**
 * Execute the supplied SQL statement with (optional) supplied arguments.
 * @return the numbers of rows affected by the update.
 * @see JdbcOperations#update(String)
 * @see JdbcOperations#update(String, Object[])
 */
int update(String sql, Object... args) throws DataAccessException;

}
/*
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 * limitations under the License.
 */

package org.springframework.jdbc.core.simple;

```

```

import java.util.List;
import java.util.Map;

import javax.sql.DataSource;

import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.JdbcOperations;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.util.ObjectUtils;

/**
 * Java-5-based convenience wrapper for the classic Spring
 * { @link org.springframework.jdbc.core.JdbcTemplate },
 * taking advantage of varargs and autoboxing, and exposing only the most
 * commonly required operations in order to simplify JdbcTemplate usage.
 *
 * <p>Use the { @link #getJdbcOperations() } method (or a straight JdbcTemplate)
 * if you need to invoke less commonly used template methods. This includes
 * any methods specifying SQL types, methods using less commonly used callbacks
 * such as RowCallbackHandler, updates with PreparedStatementSetters rather than
 * argument arrays, and stored procedures as well as batch operations.
 *
 * @author Rod Johnson
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 * @see ParameterizedRowMapper
 * @see SimpleJdbcDaoSupport
 * @see org.springframework.jdbc.core.JdbcTemplate
 */
public class SimpleJdbcTemplate implements SimpleJdbcOperations {

    /** The JdbcTemplate that we are wrapping */
    private final JdbcOperations classicJdbcTemplate;

    /**
     * Create a new SimpleJdbcTemplate for the given DataSource.
     * <p>Creates a classic Spring JdbcTemplate and wraps it.
     * @param dataSource the JDBC DataSource to access
     */
    public SimpleJdbcTemplate(DataSource dataSource) {
        this.classicJdbcTemplate = new JdbcTemplate(dataSource);
    }

    /**
     * Create a new SimpleJdbcTemplate for the given classic Spring JdbcTemplate.

```

```

* @param classicJdbcTemplate the classic Spring JdbcTemplate to wrap
*/
public SimpleJdbcTemplate(JdbcOperations classicJdbcTemplate) {
    this.classicJdbcTemplate = classicJdbcTemplate;
}

/**
* Expose the classic Spring JdbcTemplate to allow invocation of
* less commonly used methods.
*/
public JdbcOperations getJdbcOperations() {
    return this.classicJdbcTemplate;
}

public int queryForInt(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForInt(sql) :
        getJdbcOperations().queryForInt(sql, args));
}

public long queryForLong(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForLong(sql) :
        getJdbcOperations().queryForLong(sql, args));
}

@SuppressWarnings("unchecked")
public <T> T queryForObject(String sql, Class<T> requiredType, Object... args) throws DataAccessException {
    return (T) (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForObject(sql, requiredType) :
        getJdbcOperations().queryForObject(sql, args, requiredType));
}

@SuppressWarnings("unchecked")
public <T> T queryForObject(String sql, ParameterizedRowMapper<T> rm, Object... args) throws
DataAccessException {
    return (T) (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForObject(sql, rm):
        getJdbcOperations().queryForObject(sql, args, rm));
}

@SuppressWarnings("unchecked")
public <T> List<T> query(String sql, ParameterizedRowMapper<T> rm, Object... args) throws
DataAccessException {
    return (List<T>) (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().query(sql, rm) :
        getJdbcOperations().query(sql, args, rm));
}

```

```

}

@SuppressWarnings("unchecked")
public Map<String, Object> queryForMap(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForMap(sql) :
        getJdbcOperations().queryForMap(sql, args));
}

@SuppressWarnings("unchecked")
public List<Map<String, Object>> queryForList(String sql, Object... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().queryForList(sql) :
        getJdbcOperations().queryForList(sql, args));
}

public int update(String sql, Object ... args) throws DataAccessException {
    return (ObjectUtils.isEmpty(args) ?
        getJdbcOperations().update(sql) :
        getJdbcOperations().update(sql, args));
}

}
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 */

package org.springframework.jdbc.datasource;

import java.sql.Connection;

import org.springframework.util.Assert;

/**
 * Simple implementation of the {@link ConnectionHandle} interface,
 * containing a given JDBC Connection.

```

```

*
* @author Juergen Hoeller
* @since 1.1
*/
public class SimpleConnectionHandle implements ConnectionHandle {

    private final Connection connection;

    /**
     * Create a new SimpleConnectionHandle for the given Connection.
     * @param connection the JDBC Connection
     */
    public SimpleConnectionHandle(Connection connection) {
        Assert.notNull(connection, "Connection must not be null");
        this.connection = connection;
    }

    /**
     * Return the specified Connection as-is.
     */
    public Connection getConnection() {
        return this.connection;
    }

    /**
     * This implementation is empty, as we're using a standard
     * Connection handle that does not have to be released.
     */
    public void releaseConnection(Connection con) {
    }

    public String toString() {
        return "SimpleConnectionHandle: " + this.connection;
    }

}
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*/
```

```
package org.springframework.jdbc.support.nativejdbc;
```

```
import java.sql.Connection;  
import java.sql.SQLException;
```

```
import org.apache.commons.logging.Log;  
import org.apache.commons.logging.LogFactory;
```

```
/**
```

```
* Simple implementation of the NativeJdbcExtractor interface.  
* Assumes a pool that wraps Connection handles but not DatabaseMetaData:  
* In this case, the underlying native Connection can be retrieved by simply  
* calling conHandle.getMetaData().getConnection().  
* All other JDBC objects will be returned as passed in.  
*  
* 

This extractor should work with any pool that does not wrap DatabaseMetaData,  
and will also work with any plain JDBC driver. Note that a pool can still wrap  
Statements, PreparedStatements, etc: The only requirement of this extractor is  
that java.sql.DatabaseMetaData does not get wrapped, returning the  
native Connection of the JDBC driver on metaData.getConnection().

  
* 

Customize this extractor by setting the "nativeConnectionNecessaryForXxx"  
flags accordingly: If Statements, PreparedStatements, and/or CallableStatements  
are wrapped by your pool, set the corresponding "nativeConnectionNecessaryForXxx"  
flags to "true". If none of the statement types is wrapped - or you solely need  
Connection unwrapping in the first place -, the defaults are fine.

  
* 

SimpleNativeJdbcExtractor is a common choice for use with OracleLobHandler,  
which just needs Connection unwrapping via the  
getNativeConnectionFromStatement method. This usage will work  
with almost any connection pool. Known to work are, for example:



- Caucho Resin 2.1.x, 3.0.x
- Sun Java System Application Server 8
- Oracle OC4J 9.0.3, 9.0.4
- C3P0 0.8.x
- Jakarta Commons DBCP 1.0, 1.1, 1.2 (used in Tomcat 4.1.x, 5.0.x)
- JBoss 3.2.x

  
* 

For full usage with JdbcTemplate, i.e. to also provide Statement unwrapping:




```

```

* <li>Use a default SimpleNativeJdbcExtractor for Resin and SJAS (no JDBC
* Statement objects are wrapped, therefore no special unwrapping is necessary).
* <li>Use a SimpleNativeJdbcExtractor with all "nativeConnectionNecessaryForXxx"
* flags set to "true" for OC4J and C3P0 (all JDBC Statement objects are wrapped,
* but none of the wrappers allow for unwrapping).
* <li>Use a CommonsDbcpNativeJdbcExtractor for Jakarta Commons DBCP respectively
* a JBossNativeJdbcExtractor for JBoss (all JDBC Statement objects are wrapped,
* but all of them can be extracted by casting to implementation classes).
* </ul>
*
* @author Juergen Hoeller
* @since 05.12.2003
* @see java.sql.DatabaseMetaData#getConnection
* @see #getNativeConnection
* @see #setNativeConnectionNecessaryForNativeStatements
* @see #setNativeConnectionNecessaryForNativePreparedStatements
* @see #setNativeConnectionNecessaryForNativeCallableStatements
* @see CommonsDbcpNativeJdbcExtractor
* @see JBossNativeJdbcExtractor
* @see org.springframework.jdbc.core.JdbcTemplate#setNativeJdbcExtractor
* @see org.springframework.jdbc.support.lob.OracleLobHandler#setNativeJdbcExtractor
*/
public class SimpleNativeJdbcExtractor extends NativeJdbcExtractorAdapter {

    private boolean nativeConnectionNecessaryForNativeStatements = false;

    private boolean nativeConnectionNecessaryForNativePreparedStatements = false;

    private boolean nativeConnectionNecessaryForNativeCallableStatements = false;

    /**
     * Set whether it is necessary to work on the native Connection to
     * receive native Statements. Default is "false". If true, the Connection
     * will be unwrapped first to create a Statement.
     * <p>This makes sense if you need to work with native Statements from
     * a pool that does not allow to extract the native JDBC objects from its
     * wrappers but returns the native Connection on DatabaseMetaData.getConnection.
     * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
     * so set this to true if your connection pool wraps Statements.
     * @see java.sql.Connection#createStatement
     * @see java.sql.DatabaseMetaData#getConnection
     */
    public void setNativeConnectionNecessaryForNativeStatements(boolean
    nativeConnectionNecessaryForNativeStatements) {
        this.nativeConnectionNecessaryForNativeStatements = nativeConnectionNecessaryForNativeStatements;
    }
}

```

```

public boolean isNativeConnectionNecessaryForNativeStatements() {
    return nativeConnectionNecessaryForNativeStatements;
}

/**
 * Set whether it is necessary to work on the native Connection to
 * receive native PreparedStatements. Default is "false". If true,
 * the Connection will be unwrapped first to create a PreparedStatement.
 * <p>This makes sense if you need to work with native PreparedStatements from
 * a pool that does not allow to extract the native JDBC objects from its
 * wrappers but returns the native Connection on Statement.getConnection.
 * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
 * so set this to true if your connection pool wraps PreparedStatements.
 * @see java.sql.Connection#prepareStatement
 * @see java.sql.DatabaseMetaData#getConnection
 */
public void setNativeConnectionNecessaryForNativePreparedStatements(boolean nativeConnectionNecessary) {
    this.nativeConnectionNecessaryForNativePreparedStatements = nativeConnectionNecessary;
}

public boolean isNativeConnectionNecessaryForNativePreparedStatements() {
    return nativeConnectionNecessaryForNativePreparedStatements;
}

/**
 * Set whether it is necessary to work on the native Connection to
 * receive native CallableStatements. Default is "false". If true,
 * the Connection will be unwrapped first to create a CallableStatement.
 * <p>This makes sense if you need to work with native CallableStatements from
 * a pool that does not allow to extract the native JDBC objects from its
 * wrappers but returns the native Connection on Statement.getConnection.
 * <p>The standard SimpleNativeJdbcExtractor is unable to unwrap statements,
 * so set this to true if your connection pool wraps CallableStatements.
 * @see java.sql.Connection#prepareCall
 * @see java.sql.DatabaseMetaData#getConnection
 */
public void setNativeConnectionNecessaryForNativeCallableStatements(boolean nativeConnectionNecessary) {
    this.nativeConnectionNecessaryForNativeCallableStatements = nativeConnectionNecessary;
}

public boolean isNativeConnectionNecessaryForNativeCallableStatements() {
    return nativeConnectionNecessaryForNativeCallableStatements;
}

}

```

1.133 spring-aop 3.1.2.RELEASE

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1.146 spring-security-acl 3.1.2.RELEASE

1.147 spring-security-core 3.1.2.RELEASE

1.148 spring-security-taglibs 3.1.2.RELEASE

1.149 spring-test 3.1.2.RELEASE

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1.152 spring-webmvc 3.1.2.Release

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1.155 validation-api 1.0.0.GA

1.156 xalan 2.7.1

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1.161 xmlunit 1.2

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1.163 xnio-api 3.0.10.GA

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