Open Source Used In Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)

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/**
 * An abstract implementation of the [AuthenticationManager].
 *
 * @author Wesley Hall
 * @version $Id: AbstractAuthenticationManager.java 2654 2008-02-18 20:44:09Z luke_t $
 */
public abstract class AbstractAuthenticationManager implements AuthenticationManager {

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*/

package org.acegisecurity;
private boolean clearExtraInformation = true;

/**
 * <p>An implementation of the <code>authenticate</code> method that calls the abstract method <code>doAuthenticate</code> to do its work.</p>
 * <p>If doAuthenticate throws an <code>AuthenticationException</code> then the exception is populated with the failed <code>Authentication</code> object that failed.</p>
 * @param authRequest the authentication request object
 * @return a fully authenticated object including credentials
 * @throws AuthenticationException if authentication fails
 */
public final Authentication authenticate(Authentication authRequest)
    throws AuthenticationException {
    try {
        return doAuthentication(authRequest);
    } catch (AuthenticationException e) {
        e.setAuthentication(authRequest);

        if (clearExtraInformation) {
            e.clearExtraInformation();
        }

        throw e;
    }
}

/**
 * Concrete implementations of this class override this method to provide the authentication service.
 * The contract for this method is documented in the <a href="AuthenticationManager#authenticate(Authentication)">Authenticate</a> method.
 * @param authentication the authentication request object
 * @return a fully authenticated object including credentials
 * @throws AuthenticationException if authentication fails
 */
protected abstract Authentication doAuthentication(Authentication authentication)
public void setClearExtraInformation(boolean clearExtraInformation) {
    this.clearExtraInformation = clearExtraInformation;
}

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import javax.faces.render.RenderKit;

/**
 * @author shura (latest modification by $Author: alexsmirnov $)
 * @version $Revision: 1.1.2.1 $ $Date: 2007/01/09 18:58:55 $
public interface ChameleonRenderKit {

/**
 * @param renderKit
 */
void setDefaultRenderKit(RenderKit renderKit);

}
* Fabrizio Giustina <fgiust at users.sourceforge.net>
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1.11 angular 1.6.5

1.12 angular-animate 1.6.5
1.13 angular-aria 1.6.5

1.14 angular-messages 1.6.5

1.15 angular-sanitize 1.6.5

1.16 angular-ui-grid 3.0.7

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1.17 angular-ui-router 0.2.15
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1.18 AngularJS Toaster 2.0.0

1.19 ANTLR 2.7.6

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1.21 AntLR Parser Generator 2.7.7

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1.22 AntLR Parser Generator 3.0.1

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1.23 Apache CLI interface 1.2

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package org.apache.commons.codec;

/**
 * Defines common decoding methods for byte array decoders.
 *
 * @author Apache Software Foundation
 * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
 */

public interface BinaryDecoder extends Decoder{
/**
 * Decodes a byte array and returns the results as a byte array.
 *
 * @param pArray A byte array which has been encoded with the
 *    appropriate encoder
 *
 * @return a byte array that contains decoded content
 *
 * @throws DecoderException A decoder exception is thrown
 *    if a Decoder encounters a failure condition during
 *    the decode process.
 */
 byte[] decode(byte[] pArray) throws DecoderException;
}

The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats
such as Base64 and Hexadecimal. In addition to these widely used encoders and
decoders, the codec package also maintains a collection of phonetic encoding
utilities.

Changes in this version include:

New Features:

o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s.
  Issue: 27813. Thanks to Alex Karasulu.

o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail
  Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are
  not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg
  Kalnichevski.

o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a
  character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.

o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined
  in RFC 1521 and designed to allow text containing mostly ASCII characters
  to be decipherable on an ASCII terminal without decoding. Issue: 26617.
  Thanks to Oleg Kalnichevski.

o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to
  Matthew Inger.

o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks
to Matthew Inger.

Fixed bugs:
o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF.
   Issue: 27781. Thanks to Gary D. Gregory.
o Hex converts illegal characters to 255. Issue: 28455.
o Metaphone now correctly handles a silent B in a word that ends in MB.
   "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB".
   Issue: 28457.
o Added missing tags in Javadoc comments.
o General Javadoc improvements.

Changes:

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   LICENSE.txt. Previous versions were released under the Apache License 1.1.
o The Board recommendation to remove Javadoc author tags has been
   implemented. All author tags are now "Apache Software Foundation".

Have fun!
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- javaee_web_services_1_3.xsd
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1.42 api-check 7.5.5

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 */
package org.objectweb.asm;

/**
 * A visitor to visit a Java annotation. The methods of this interface must be
 * called in the following order: (visitvisitEnum | visitAnnotation | visitArray | visitEnd).
 */
public interface AnnotationVisitor {

    /**
     * Visits a primitive value of the annotation.
     *
     * @param name the value name.
     * @param value the actual value, whose type must be \{@link Byte}, \{@link Boolean}, \{@link Character}, \{@link Short}, \{@link Integer}, \{@link Long}, \{@link Float}, \{@link Double}, \{@link String} or \{@link Type\}. This value can also be an array
     * of byte, boolean, short, char, int, long, float or double values
     * (this is equivalent to using \{@link #visitArray visitArray\} and
     * visiting each array element in turn, but is more convenient).
     */
    void visit(String name, Object value);

    /**
     * Visits an enumeration value of the annotation.
     *
     * @param name the value name.
     * @param desc the class descriptor of the enumeration class.
     * @param value the actual enumeration value.
     */
    void visitEnum(String name, String desc, String value);

    /**
     * Visits a nested annotation value of the annotation.
     *
     * @param name the value name.
     * @param desc the class descriptor of the nested annotation class.
     * @return a visitor to visit the actual nested annotation value, or
     * <tt>null</tt> if this visitor is not interested in visiting
     * this nested annotation. \textit{The nested annotation value must be
     * fully visited before calling other methods on this annotation
     * visitor}.\textit{\textperiodcentered}
     */
    AnnotationVisitor visitAnnotation(String name, String desc);

    /**
     * Visits an array value of the annotation. Note that arrays of primitive
     * types (such as byte, boolean, short, char, int, long, float or double)
     * can be passed as value to \{@link #visit visit\}. This is what
     * \{@link ClassReader\} does.
     *
     * @param name the value name.
     */
* @return a visitor to visit the actual array value elements, or
*        <tt>null</tt> if this visitor is not interested in visiting
*        these values. The 'name' parameters passed to the methods of this
*        visitor are ignored.  &lt;i&gt;All the array values must be visited
*        before calling other methods on this annotation visitor&lt;/i&gt;.
*/

AnnotationVisitor visitArray(String name);

/**
* Visits the end of the annotation.
*/
void visitEnd();

1.45 AspectJ weaver 1.5.3

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1.46 axis 1.4

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1.52 bootstrap-datetimelpicker 0.0.11

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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.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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
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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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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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import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;

public interface EncodingAlgorithm {
    public Object decodeFromBytes(byte[] b, int start, int length) throws EncodingAlgorithmException;
}
public Object decodeFromInputStream(InputStream s) throws EncodingAlgorithmException, IOException;

public void encodeToOutputStream(Object data, OutputStream s) throws EncodingAlgorithmException, IOException;

public Object convertFromCharacters(char[] ch, int start, int length) throws EncodingAlgorithmException;

public void convertToCharacters(Object data, StringBuffer s) throws EncodingAlgorithmException;

}

1.111 fetch 2.0.4

1.112 FindBugs-jsr305 1.3.9

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1.113 Fizzy UI Utils 1.0.1

1.114 font-awesome 4.2.0

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1.115 font-awesome 3.1.1

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/* */

/* ************************************************************* */

/* */

/* */ Parts of this software have been adapted from the libpng package. * */

/* */ Although this library supports all features from the PNG specification * */

/* */ (as MNG descends from it) it does not require the libpng package. * */

/* */ It does require the zlib library and optionally the IJG jpeg library, * */

/* */ and/or the "little-cms" library by Marti Maria (depending on the * */

/* */ inclusion of support for JNG and Full-Color-Management respectively. * */

/* */

/* */ This library's function is primarily to read and display MNG * */

/* */ animations. It is not meant as a full-featured image-editing * */

/* */ component! It does however offer creation and editing functionality * */

/* */ at the chunk level. * */

/* */ (future modifications may include some more support for creation * */

/* */ and or editing) * */

/* */

/* */

/* ************************************************************* */

/* */

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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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1.134 hibernate-core 3.6.3.Final

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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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1.155 jackson-xc 1.9.2

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.)

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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.

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ATTACHMENT C

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This Attachment C is only effective for the Technology specified in Attachment B, upon execution of Attachment D (Commercial Use License) including the requirement to pay royalties. In the event of a conflict between the terms of this Attachment C and Attachment D, the terms of Attachment D shall govern.
1. Internal Deployment License Grant. Subject to Your compliance with Section 2 below, and Section 8.10 of the Research Use license; in addition to the Research Use license and the TCK license, Original Contributor grants to You a worldwide, non-exclusive license, to the extent of Original Contributor's Intellectual Property Rights covering the Original Code, Upgraded Code and Specifications, to do the following:

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b) compile such Original Code and Upgraded Code, as part of Compliant Covered Code, and reproduce and distribute internally the same in Executable form for Internal Deployment Use, and

c) reproduce and distribute internally, Reformatted Specifications for use in connection with Internal Deployment Use.

2. Additional Requirements and Responsibilities. In addition to the requirements and responsibilities described under Section 3.1 of the Research Use license, and as a condition to exercising the rights granted under Section 3 above, You agree to the following additional requirements and responsibilities:

2.1 Compatibility. All Covered Code must be Compliant Covered Code prior to any Internal Deployment Use or Commercial Use, whether originating with You or acquired from a third party. Successful compatibility testing must be completed in accordance with the TCK License. If You make any further Modifications to any Covered Code previously determined to be Compliant Covered Code, you must ensure that it continues to be Compliant Covered Code.

ATTACHMENT D COMMERCIAL USE LICENSE

1. Effect. This Attachment D is effective only if signed below by You and Original Contributor, and applies to Your Commercial Use of Original Code and Upgraded Code.

2. Term. Upon execution of this Attachment D by You and Original Contributor, this Commercial Use license shall have an initial term of 3 years and shall automatically renew for
additional one year terms unless either party provides notice to the other no less than 60 days prior to an anniversary date.

3. Commercial Use License Grant. Subject to Your compliance with Section 4 below, Section 8.10 of the Research Use license, and the TCK license; in addition to the Research Use license, the TCK license, and the Internal Deployment Use license, Original Contributor grants to You a worldwide, non-exclusive, non-transferable license, to the extent of Original Contributor's Intellectual Property Rights covering the Original Code, Upgraded Code and Specifications, to do the following:

a) reproduce and distribute Compliant Covered Code;

b) compile Compliant Covered Code and reproduce and distribute the same in Executable form through multiple tiers of distribution; and

c) reproduce and distribute Reformatted Specifications in association with Compliant Covered Code.

4. Additional Requirements and Responsibilities. In addition to the requirements and responsibilities specified in the Research Use license, the TCK license and the Internal Deployment license, and as a condition to exercising the rights granted in Section 3 above, You agree to the following additional requirements and responsibilities:

a) Distribution of Source Code. Source Code of Compliant Covered Code may be distributed only to another Licensee of the same Technology.

b) Distribution of Executable Code. You may distribute the Executable version(s) of Compliant Covered Code under a license of Your choice, which may contain terms different from this License, provided (i) that You are in compliance with the terms of this License, and (ii) You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by Original Contributor or any other Contributor.

c) Branding. Products integrating Compliant Covered Code used for Commercial Use must be branded with the Technology compliance logo under a separate trademark license required to be executed by You and Original Contributor concurrent
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b) Original Contributor's Indemnity Obligation. Original Contributor will defend, at its expense, any legal proceeding brought against You, to the extent it is based on a claim that Your authorized Commercial Use of Original Code and Upgraded Code is an infringement of a third party trade secret or a copyright in a country that is a signatory to the Berne Convention, and will pay all damages costs and fees awarded by a court of competent jurisdiction, or such settlement amount negotiated by Original Contributor, attributable to such claim. The foregoing shall not apply to any claims of intellectual property infringement based upon the combination of code or documentation supplied by Original Contributor with code, technology or documentation from other sources.

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d) Prerequisites. Under Sections 5.b) and c) above, You must, and under Section 5.a) above, Original Contributor or any Licensee must: (i) provide notice of the claim promptly to the party providing an indemnity; (ii) give the indemnifying party sole control of the defense and settlement of the claim; (iii) provide the indemnifying party, at indemnifying party's expense, all available information, assistance and authority to defend; and (iv) not have compromised or settled such claim or proceeding without the indemnifying party's prior written consent.

e) Additional Remedies. Should any Original Code, Upgraded Code, TCK, Specifications, or Modifications become, or in the indemnifying party's opinion be likely to become, the subject of a claim of infringement for which indemnity is provided above, the indemnifying party may, at its sole option, attempt to procure on reasonable terms the rights necessary for the indemnified party to exercise its license rights under this License with respect to the infringing items, or to modify the infringing items so that they are no longer infringing without substantially impairing their function or performance. If the indemnifying party is unable to do the foregoing after reasonable efforts, then the indemnifying party may send a notice of such inability to the indemnified party together with a refund of any license fees received by the indemnifying party from the indemnified party for the infringing items applicable to the indemnified party's future use or distribution of such infringging items, in which case the indemnifying party will not be liable for any damages resulting from infringing activity with respect to the infringing items occurring after such notice and refund.


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Customer Support. You are responsible for providing technical and maintenance support services to Your customers for Your products and services incorporating the Compliant Covered code.

7. Royalties and Payments.
Technology specified in Attachment B.

Field of Use:____________________

Royalty per Unit $_____________

b) Royalty Payments. Payment of royalties shall be made quarterly, shall be due thirty (30) days following the end of the calendar quarter to which they relate and shall be submitted with a written statement documenting the basis for the royalty calculation.

c) Taxes. All payments required by this License shall be made in United States dollars, are exclusive of taxes, and Licensee agrees to bear and be responsible for the payment of all such taxes, including, but not limited to, all sales, use, rental receipt, personal property or other taxes and their equivalents which may be levied or assessed in connection with this License (excluding only taxes based on Original Contributor's net income). To the extent Licensee is required to withhold taxes based upon Original Contributor's income in any country, You agree to provide Original Contributor with written evidence of such withholding, suitable for Original Contributor to obtain a tax credit in the United States.

d) Records. You agree to maintain account books and records consistent with Generally Accepted Accounting Principles appropriate to Your domicile, as may be in effect from time to time, sufficient to allow the correctness of the royalties required to be paid pursuant to this License to be determined.

e) Audit Rights. Original Contributor shall have the right to audit such accounts upon reasonable prior notice using an independent auditor of Original Contributor's choice (the "Auditor"). The Auditor shall be bound to keep confidential the details of Your business affairs and to limit disclosure of the results of any audit to the sufficiency of the accounts and the amount, if any, of a payment adjustment that should be made. Such audits shall not occur more than once each year (unless discrepancies are discovered in excess of the five percent (5%) threshold set forth in Section 7.f) below, in which case two consecutive quarters per year may be audited). Except as set forth in Section 7.f) below, Original Contributor shall bear all costs and expenses associated with the exercise of its rights to
f) Payment Errors. In the event that any errors in payments shall be determined, such errors shall be corrected by appropriate adjustment in payment for the quarterly period during which the error is discovered. In the event of an underpayment of more than five percent (5%) of the proper amount owed, upon such underpayment being properly determined by the Auditor, You agree to reimburse Original Contributor the amount of the underpayment and all reasonable costs and expenses associated with the exercise of its rights to audit, and interest on the overdue amount at the maximum allowable interest rate from the date of accrual of such obligation.

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(Your Name)
By:________________________________ By:_____________________

Title:____________________ Title:____________________

Date:____________________ Date:____________________

ATTACHMENT E TECHNOLOGY COMPATIBILITY KIT

The following license is effective for the Java(tm)2 SDK Technology Compatibility Kit only upon execution of a separate support agreement between You and Original Contributor (subject to an annual fee) as described on the SCSL Webpage. The Technology Compatibility Kit for the Technology specified in Attachment B may be accessed at the Technology Download Site only upon execution of the support agreement.

1. TCK License.

a) Subject to the restrictions set forth in Section 1.b below and Section 8.10 of the Research Use license, in addition to the Research Use license, Original Contributor grants to You a worldwide, non-exclusive, non-transferable license, to the extent of Original Contributor's Intellectual Property Rights in the TCK (without the right to sublicense), to use the TCK to develop and test Covered Code.

b) TCK Use Restrictions. You are not authorized to create derivative works of the TCK or use the TCK to test any implementation of the Specification that is not Covered Code. You may not publish your test results or make claims of comparative compatibility with respect to other implementations of the Specification. In consideration for the license grant in Section 1.a above you agree not to develop your own tests which are intended to validate conformation with the Specification.
2. Requirements for Determining Compliance.

2.1 Definitions.

a) "Added Value" means code which:

(i) has a principal purpose which is substantially different from that of the stand-alone Technology;

(ii) represents a significant functional and value enhancement to the Technology;

(iii) operates in conjunction with the Technology; and

(iv) is not marketed as a technology which replaces or substitutes for the Technology.

b) "Java Classes" means the specific class libraries associated with each Technology defined in Attachment B.

c) "Java Runtime Interpreter" means the program(s) which implement the Java virtual machine for the Technology as defined in the Specification.

d) "Platform Dependent Part" means those Original Code and Upgraded Code files of the Technology which are not in a "share" directory or subdirectory thereof.

e) "Shared Part" means those Original Code and Upgraded Code files of the Technology which are identified as "shared" (or words of similar meaning) or which are in any "share" directory or subdirectory thereof, except those files specifically designated by Original Contributor as modifiable.

f) "User's Guide" means the users guide for the TCK which Sun makes available to You to provide direction in how to run the TCK and properly interpret the results, as may be revised by Sun from time to time.

2.2 Development Restrictions. Compliant Covered Code:

a) must include Added Value;

b) must fully comply with the Specifications for the Technology specified in Attachment B;

c) must include the Shared Part, complete and unmodified;
d) may not modify the functional behavior of the Java Runtime Interpreter or the Java Classes;

e) may not modify, subset or superset the interfaces of the Java Runtime Interpreter or the Java Classes;

f) may not subset or superset the Java Classes; and

g) may not modify or extend the required public class or public interface declarations whose names begin with "java", "javax", "jini", "net.jini", "sun.hotjava", "COM.sun" or their equivalents in any subsequent naming convention.

2.3 Compatibility Testing. Successful compatibility testing must be completed by You, or at Original Contributor's option, a third party designated by Original Contributor, to conduct such tests, in accordance with the User's Guide, and using the most current version of the applicable TCK available from Original Contributor one hundred twenty (120) days (two hundred forty [240] days in the case of silicon implementations) prior to: (i) Your Internal Deployment Use; and (ii) each release of Compliant Covered Code by You for Commercial Use. In the event that You elect to use a version of Upgraded Code that is newer than that which is required under this Section 2.3, then You agree to pass the version of the TCK that corresponds to such newer version of Upgraded Code.

2.4 Test Results. You agree to provide to Original Contributor or the third party test facility if applicable, Your test results that demonstrate that Covered Code is Compliant Covered Code and that Original Contributor may publish or otherwise distribute such test results.

The JSON License

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JSONTOOLS - Java JSON Tools

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Version 2.1, February 1999

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Preamble

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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other authorized party saying it may be distributed under the terms of 
this Lesser General Public License (also called "this License"). 
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data 
prepared so as to be conveniently linked with application programs 
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work 
which has been distributed under these terms. A "work based on the 
Library" means either the Library or any derivative work under 
copyright law: that is to say, a work containing the Library or a 
portion of it, either verbatim or with modifications and/or translated 
straightforwardly into another language. (Hereinafter, translation is 
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for 
making modifications to it. For a library, complete source code means 
all the source code for all modules it contains, plus any associated 
interface definition files, plus the scripts used to control compilation 
and installation of the library.

Activities other than copying, distribution and modification are not 
covered by this License; they are outside its scope. The act of 
running a program using the Library is not restricted, and output from 
such a program is covered only if its contents constitute a work based 
on the Library (independent of the use of the Library in a tool for 
writing it). Whether that is true depends on what the Library does 
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's 
complete source code as you receive it, in any medium, provided that 
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You may charge a fee for the physical act of transferring a copy, 
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2. You may modify your copy or copies of the Library or any portion 
of it, thus forming a work based on the Library, and copy and 
distribute such modifications or work under the terms of Section 1 
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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2. Additional Requirements and Responsibilities. In addition to the requirements and responsibilities described under Section 3.1 of the Research Use license, and as a condition to exercising the rights granted under Section 3 above, You agree to the following additional requirements and responsibilities:

2.1 Compatibility. All Covered Code must be Compliant Covered Code prior to any Internal Deployment Use or Commercial Use, whether originating with You or acquired from a third party. Successful compatibility testing must be completed in accordance with the TCK License. If You make any further Modifications to any Covered Code previously determined to be Compliant Covered Code, you must ensure that it continues to be Compliant Covered Code.

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1. Effect. This Attachment D is effective only if signed below by You and Original Contributor, and applies to Your
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2. Term. Upon execution of this Attachment D by You and Original Contributor, this Commercial Use license shall have an initial term of 3 years and shall automatically renew for additional one year terms unless either party provides notice to the other no less than 60 days prior to an anniversary date.

3. Commercial Use License Grant. Subject to Your compliance with Section 4 below, Section 8.10 of the Research Use license, and the TCK license; in addition to the Research Use license, the TCK license, and the Internal Deployment Use license, Original Contributor grants to You a worldwide, non-exclusive, non-transferable license, to the extent of Original Contributor’s Intellectual Property Rights covering the Original Code, Upgraded Code and Specifications, to do the following:

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b) compile Compliant Covered Code and reproduce and distribute the same in Executable form through multiple tiers of distribution; and

c) reproduce and distribute Reformatted Specifications in association with Compliant Covered Code.

4. Additional Requirements and Responsibilities. In addition to the requirements and responsibilities specified in the Research Use license, the TCK license and the Internal Deployment license, and as a condition to exercising the rights granted in Section 3 above, You agree to the following additional requirements and responsibilities:

a) Distribution of Source Code. Source Code of Compliant Covered Code may be distributed only to another Licensee of the same Technology.

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b) Original Contributor's Indemnity Obligation. Original Contributor will defend, at its expense, any legal proceeding brought against You, to the extent it is based on a claim that Your authorized Commercial Use of Original Code and Upgraded Code is an infringement of a third party trade secret or a copyright in a country that is a signatory to the Berne Convention, and will pay all damages costs and fees awarded by a court of competent jurisdiction, or such settlement amount negotiated by Original Contributor, attributable to such claim. The foregoing shall not apply to any claims of intellectual property infringement based upon the combination of code or documentation supplied by Original Contributor with code, technology or documentation from other sources.

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Customer Support. You are responsible for providing
technical and maintenance support services to Your customers for Your products and services incorporating the Compliant Covered code.

7. Royalties and Payments.

Technology specified in Attachment B.

Field of Use:____________________

Royalty per Unit $_____________

b) Royalty Payments. Payment of royalties shall be made quarterly, shall be due thirty (30) days following the end of the calendar quarter to which they relate and shall be submitted with a written statement documenting the basis for the royalty calculation.

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e) Audit Rights. Original Contributor shall have the right to audit such accounts upon reasonable prior notice using an independent auditor of Original Contributor's choice (the "Auditor"). The Auditor shall be bound to keep confidential the details of Your business affairs and to limit disclosure of the results of any audit to the sufficiency of the accounts and the amount, if any, of a payment adjustment that should be made. Such audits shall not occur more than once each year (unless discrepancies are discovered in
excess of the five percent (5%) threshold set forth in 
Section 7.f) below, in which case two consecutive quarters 
per year may be audited). Except as set forth in Section  
7.f) below, Original Contributor shall bear all costs and 
expenses associated with the exercise of its rights to 
audit.

f) Payment Errors. In the event that any errors in payments 
shall be determined, such errors shall be corrected by 
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amount owed, upon such underpayment being properly 
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You: Original Contributor:

_____________________________ Sun Microsystems, Inc.
(Your Name)
By: __________________________ By: __________________________

Title: _________________________ Title: _________________________

Date: _________________________ Date: _________________________

ATTACHMENT E TECHNOLOGY COMPATIBILITY KIT

The following license is effective for the Java(tm)2 SDK Technology Compatibility Kit only upon execution of a separate support agreement between You and Original Contributor (subject to an annual fee) as described on the SCSL Webpage. The Technology Compatibility Kit for the Technology specified in Attachment B may be accessed at the Technology Download Site only upon execution of the support agreement.

1. TCK License.

a) Subject to the restrictions set forth in Section 1.b below and Section 8.10 of the Research Use license, in addition to the Research Use license, Original Contributor grants to You a worldwide, non-exclusive, non-transferable license, to the extent of Original Contributor's Intellectual Property Rights in the TCK (without the right to sublicense), to use the TCK to develop and test Covered Code.

b) TCK Use Restrictions. You are not authorized to create derivative works of the TCK or use the TCK to test any implementation of the Specification that is not Covered Code. You may not publish your test results or make claims of comparative compatibility with respect to other
implementations of the Specification. In consideration for the license grant in Section 1.a above you agree not to develop your own tests which are intended to validate conformation with the Specification.

2. Requirements for Determining Compliance.

2.1 Definitions.

a) "Added Value" means code which:

(i) has a principal purpose which is substantially different from that of the stand-alone Technology;

(ii) represents a significant functional and value enhancement to the Technology;

(iii) operates in conjunction with the Technology; and

(iv) is not marketed as a technology which replaces or substitutes for the Technology.

b) "Java Classes" means the specific class libraries associated with each Technology defined in Attachment B.

c) "Java Runtime Interpreter" means the program(s) which implement the Java virtual machine for the Technology as defined in the Specification.

d) "Platform Dependent Part" means those Original Code and Upgraded Code files of the Technology which are not in a "share" directory or subdirectory thereof.

e) "Shared Part" means those Original Code and Upgraded Code files of the Technology which are identified as "shared" (or words of similar meaning) or which are in any "share" directory or subdirectory thereof, except those files specifically designated by Original Contributor as modifiable.

f) "User's Guide" means the users guide for the TCK which Sun makes available to You to provide direction in how to run the TCK and properly interpret the results, as may be revised by Sun from time to time.

2.2 Development Restrictions. Compliant Covered Code:

a) must include Added Value;
b) must fully comply with the Specifications for the Technology specified in Attachment B;

c) must include the Shared Part, complete and unmodified;

d) may not modify the functional behavior of the Java Runtime Interpreter or the Java Classes;

e) may not modify, subset or superset the interfaces of the Java Runtime Interpreter or the Java Classes;

f) may not subset or superset the Java Classes; and

g) may not modify or extend the required public class or public interface declarations whose names begin with "java", "javax", "jini", "net.jini", "sun.hotjava", "COM.sun" or their equivalents in any subsequent naming convention.

2.3 Compatibility Testing. Successful compatibility testing must be completed by You, or at Original Contributor's option, a third party designated by Original Contributor, to conduct such tests, in accordance with the User's Guide, and using the most current version of the applicable TCK available from Original Contributor one hundred twenty (120) days (two hundred forty [240] days in the case of silicon implementations) prior to: (i) Your Internal Deployment Use; and (ii) each release of Compliant Covered Code by You for Commercial Use. In the event that You elect to use a version of Upgraded Code that is newer than that which is required under this Section 2.3, then You agree to pass the version of the TCK that corresponds to such newer version of Upgraded Code.

2.4 Test Results. You agree to provide to Original Contributor or the third party test facility if applicable, Your test results that demonstrate that Covered Code is Compliant Covered Code and that Original Contributor may publish or otherwise distribute such test results.

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Version 2.1, February 1999

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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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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.

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1.1

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// XMLWriter.java - serialize an XML document.
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/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
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 * See <a href="http://www.saxproject.org">http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class provides a default implementation of the SAX2
 * [ @link org.xml.sax.Attributes Attributes ] interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * There are two typical uses of this class:</p>
 * 
 * <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a [org.xml.sax.ContentHandler#startElement startElement] event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
*
* <p>This class replaces the now-deprecated SAX1 [org.xml.sax.helpers.AttributeListImpl AttributeListImpl] class; in addition to supporting the updated Attributes interface rather than the deprecated [org.xml.sax.AttributeList AttributeList] interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.</p>
*
* @since JAXB1.0
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

// NamespaceSupport.java - generic Namespace support for SAX.
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Amendment II

A well regulated militia, being necessary to the security of a free state, the right of the people to keep and bear arms,
shall not be infringed.

Amendment III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war,
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Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and
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affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

Amendment V

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment
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nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or
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Amendment VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the
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1.194 JMS 1.1 1.1.1

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1.212 kahadb 5.5.1

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### 1.222 Logback Core Module 1.1.2

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cat logback-core-1.1.2-sources/ch/qos/logback/core/LayoutBase.java

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1.234 netty-socketio 1.7.3

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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d) Verify that the user has already received a copy of these
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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 source code 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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Ty Coon, President of Vice

That's all there is to it!
1.237 OmniORB 4.1.7

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// -*- Mode: C++; -*-
//                            Package   : omniORB
// cs-037.cc                  Created on: 29/01/2003
//                            Author    : Coleman Corrigan
//
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//
// Description:
//  Code set tables for EBCDIC IBM037
//
/

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1.238 OmniORB - library 4.1.0

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Version 2, June 1991

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1.242 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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1.245 outlayer 2.1.0

1.246 Picnix Utilities 0.0.12

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1.247 powermock-api-easymock 1.5.5

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 */

package org.powermock.api.easymock.internal.invocationcontrol;

import org.easymock.EasyMock;
import org.easymock.IExpectationSetters;
import org.easymock.internal.MocksControl;
import org.powermock.core.MockRepository;
import org.powermock.core.spi.NewInvocationControl;
import org.powermock.core.spi.support.InvocationSubstitute;
import org.powermock.reflect.internal.WhiteboxImpl;

import java.lang.reflect.Constructor;
public class NewInvocationControlImpl<T> implements NewInvocationControl<IExpectationSetters<T>> {
    private final InvocationSubstitute<T> substitute;
    private final Class<T> substitutionType;
    private boolean hasReplayed;
    private boolean hasVerified;

    public NewInvocationControlImpl(InvocationSubstitute<T> substitute, Class<T> type) {
        if (substitute == null) {
            throw new IllegalArgumentException("Internal error: substitute cannot be null.");
        }
        this.substitutionType = type;
        this.substitute = substitute;
    }

    public Object invoke(Class<?> type, Object[] args, Class<?>[] sig) throws Exception {
        Constructor<?> constructor = WhiteboxImpl.getConstructor(type, sig);
        if (constructor.isVarArgs()) {
            /* Get the last argument because this contains the actual varargs arguments. */
            int length = constructor.getParameterTypes().length;
            args = (Object[]) args[length-1];
        }
        try {
            final MocksControl.MockType mockType = ((EasyMockMethodInvocationControl<?>)
            MockRepository.getInstanceMethodInvocationControl(substitute)).getMockType();
            Object result = substitute.performSubstitutionLogic(args);
            if (result == null) {
                if (mockType == MocksControl.MockType.NICE) {
                    result = EasyMock.createNiceMock(substitutionType);
                } else {
                    throw new IllegalStateException("Must replay class " + type.getName() + " to get configured expectation.");
                }
            }
            return result;
        } catch (AssertionError e) {
            NewInvocationControlAssertionError.throwAssertionErrorForNewSubstitutionFailure(e, type);
        }
    // Won't happen
    return null;
    }

    public IExpectationSetters<T> expectSubstitutionLogic(Object... arguments) throws Exception {
    }
}
return EasyMock.expect(substitute.performSubstitutionLogic(arguments));
}

/**
 * @inheritDoc
*/
public synchronized Object replay(Object... mocks) {
    if (!hasReplayed) {
        EasyMock.replay(substitute);
        hasReplayed = true;
    }
    return null;
}

/**
 * @inheritDoc
*/
public synchronized Object verify(Object... mocks) {
    if (!hasVerified) {
        EasyMock.verify(substitute);
        hasVerified = true;
    }
    return null;
}

/**
 * @inheritDoc
*/
public synchronized Object reset(Object... mocks) {
    EasyMock.reset(substitute);
    hasReplayed = false;
    hasVerified = false;
    return null;
}

1.248 Prototype 1.5.0

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pthreads-win32 - a POSIX threads library for Microsoft Windows

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-------------------------------------------------------------

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Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used
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Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market for their products.

1.251 Quartz Scheduler 1.0

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1.252 rapidjson 0.1

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1.255 regexp 1.1

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Written by: Philip Hazel <ph10@cam.ac.uk>

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*
*/
package org.slf4j.helpers;

import java.io.ObjectStreamException;
import java.io.Serializable;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Serves as base class for named logger implementation. More significantly, this
 * class establishes deserialization behavior. See @see #readResolve.
 *
 * @author Ceki Gulcu
 * @since 1.5.3
 */
abstract class NamedLoggerBase implements Logger, Serializable {

    private static final long serialVersionUID = 7535258609338176893L;

    protected String name;

    public String getName() {
        return name;
    }

    /**
     * Replace this instance with a homonymous (same name) logger returned
     * by LoggerFactory. Note that this method is only called during
     * deserialization.
     */
This approach will work well if the desired ILoggerFactory is the one references by LoggerFactory. However, if the user manages its logger hierarchy through a different (non-static) mechanism, e.g. dependency injection, then this approach would be mostly counterproductive.

@returns logger with same name as returned by LoggerFactory
@throws ObjectStreamException

protected Object readResolve() throws ObjectStreamException {
    // using getName() instead of this.name works even for
    // NOPLogger
    return LoggerFactory.getLogger(getName());
}

1.273 slf4j-api 1.6.6

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1.274 slf4j-log4j12 1.7.12

1.275 spiffy 0.05

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1.293 spring-tx 3.0.5.RELEASE

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1.294 spymemcached 2.8.0

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1.298 storm-core 0.9.2-incubating

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For jQuery 1.6.2 (storm-core/src/ui/public/js/jquery-1.6.2.min.js)

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For arbor.js and arbor-graphics.js (storm-core/src/ui/public/js/)

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For Purl (storm-core/src/ui/public/js/purl.js)

Purl (A JavaScript URL parser) v2.3.1
Developed and maintained by Mark Perkins, mark@allmarkedup.com
Source repository: https://github.com/allmarkedup/jQuery-URL-Parser

For mustache.js (storm-core/src/ui/public/js/jquery.mustache.js)

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1.307 Tomahawk 1.1.8

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# limitations under the License.
#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#
#
# Declare the sub-directories to be built here
#
SUBDIRS = \
$(EOLIST)
#
include $(AP_WORK)/build/NWGNUhead.inc
#
# build this level's files
#
# Make sure all needed macro's are defined
#
JKCOMMON = ../../../common
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS+= \\
$(JKCOMMON) \\
$(APR)/include \\
$(APRUTIL)/include \\
$(AP_WORK)/include \\
$(NWOS) \\
$(EOLIST)

# These flags will come after CFLAGS
#
XCFLAGS+= \\
$(EOLIST)

# These defines will come after DEFINES
#
XDEFINES+= \\
-D__NOVELL_LIBC__ \\
-D_POSIX_SOURCE \\
$(EOLIST)

# These flags will be added to the link.opt file
#
XLFLAGS+= \\
$(EOLIST)

# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$\(RELEASE\)" "debug"
XINCDIRS+= \\
$(EOLIST)

XCFLAGS+= \\
$(EOLIST)

XDEFINES+= \\
$(EOLIST)

XLFLAGS+= \

ifeq "$(RELEASE)" "noopt"
    XINCDIRS+= \\
    $(EOLIST)
endif

    XCFLAGS+= \\
    $(EOLIST)
    XDEFINES+= \\
    $(EOLIST)
    XLFLAGS+= \\
    $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
    XINCDIRS+= \\
    $(EOLIST)
endif

    XCFLAGS+= \\
    $(EOLIST)
    XDEFINES+= \\
    $(EOLIST)
    XLFLAGS+= \\
    $(EOLIST)
endif

# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm. If left blank
# TARGET_nlm (see below) will be used.
#
# NLM_NAME= mod_jk

# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
# NLM_DESCRIPTION= Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT=

#  
# This is used by the '-threadname' directive. If left blank, 
# NLM_NAME Thread will be used.  
#  
# NLM_THREAD_NAME= JK Module

#  
# If this is specified, it will override VERSION value in 
# $(AP_WORK)/build\NWGNUenvironment.inc  
#  
# NLM_VERSION= $(JK_VERSION)

#  
# If this is specified, it will override the default of 64K  
#  
# NLM_STACK_SIZE= 49152

#  
# If this is specified it will be used by the link '-entry' directive  
#  
# NLM_ENTRY_SYM= _LibCPrelude

#  
# If this is specified it will be used by the link '-exit' directive  
#  
# NLM_EXIT_SYM= _LibCPostlude

#  
# If this is specified it will be used by the link '-check' directive  
#  
# NLM_CHECK_SYM=

#  
# If these are specified it will be used by the link '-flags' directive  
#  
# NLM_FLAGS= AUTOUNLOAD, PSEUDOPREEMPTION

#  
# If this is specified it will be linked in with the XDCData option in the def  
# file instead of the default of $(NWOS)/apache.xdc. XDCData can be disabled  
# by setting APACHE_UNIPROC in the environment  
#  
# XDCDATA=

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
$(OBJDIR)/$(NLM_NAME).nlm \
$(EOLIST)
#
# If there is an LIB target, put it here
#
TARGET_lib = \
$(EOLIST)
#
# These are the OBJ files needed to create the NLM target above.  
# Paths must all use the '/' character
#
FILES_nlm_objs = \
$(OBJDIR)/jk_nwmain.o \ 
$(OBJDIR)/jk_ajp12_worker.o \ 
$(OBJDIR)/jk_ajp13.o \ 
$(OBJDIR)/jk_ajp13_worker.o \ 
$(OBJDIR)/jk_ajp14.o \ 
$(OBJDIR)/jk_ajp14_worker.o \ 
$(OBJDIR)/jk_ajp_common.o \ 
$(OBJDIR)/jk_connect.o \ 
$(OBJDIR)/jk_context.o \ 
$(OBJDIR)/jk_lb_worker.o \ 
$(OBJDIR)/jk_map.o \ 
$(OBJDIR)/jk_md5.o \ 
$(OBJDIR)/jk_msg_buff.o \ 
$(OBJDIR)/jk_pool.o \ 
$(OBJDIR)/jk_shm.o \ 
$(OBJDIR)/jk_sockbuf.o \ 
$(OBJDIR)/jk_status.o \ 
$(OBJDIR)/jk_uri_worker_map.o \ 
$(OBJDIR)/jk_url.o \ 
$(OBJDIR)/jk_util.o \ 
$(OBJDIR)/jk_worker.o \ 
$(OBJDIR)/mod_jk.o \ 
$(EOLIST)
#
# These are the LIB files needed to create the NLM target above.  
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
$(NOVELLLIBC)/imports/libcpre.o \ 
$(EOLIST)
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.

FILES_nlm_modules = \n  aprlib \n  libc \n$(EOLIST)

# If the nlm has a msg file, put it's path here
FILE_nlm_msg =

# If the nlm has a hlp file put it's path here
FILE_nlm_hlp =

# If this is specified, it will override $(NWOS)\copyright.txt.
FILE_nlm_copyright =

# Any additional imports go here

FILES_nlm_Ximports = \n  @aprlib.imp \n  @httpd.imp \n  @libc.imp \n  @ws2nlm.imp \n$(EOLIST)

# Any symbols exported to here

FILES_nlm_exports = \n  jk_module \n$(EOLIST)

# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character

FILES_lib_objs = \n$(EOLIST)
# implement targets and dependencies (leave this section alone)
#
libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

# Updated this target to create necessary directories and copy files to the
# correct place. (See $(AP_WORK)/build/NWGNUhead.inc for examples)
#
install :: nlms FORCE
copy $(OBJDIR)*.nlm $(INSTALL)/Apache2\modules*.*

# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc: $(JKCOMMON)/jk_version.h $(OBJDIR)
@echo Creating $@
@awk -f ../../support/get_ver.awk $< > $@

# Include the version info retrieved from jk_version.h
#

-incl $(OBJDIR)/version.inc

# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#
include $(AP_WORK)/build/NWGNUtail.inc

PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
   SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' + 'XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('mod_jk.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP_COM) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp_common.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP12_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp12_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP13) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP13_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
   'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETYPET(*LOCALEUTF) +
SYSFICOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGRRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYPET(*LOCALEUTF) +
SYSFICOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGRRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPET(*LOCALEUTF) +
SYSFICOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGRRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPET(*LOCALEUTF) +
SYSFICOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common'/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buf.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buf.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common'/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common'/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common'/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGlvl(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_url.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGlvl(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGlvl(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGlvl(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_STATUS) +
SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
' _XOPEN_SOURCE=520' 'USE_APACHE_MD5' ' _REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSCLOPT(*IFSIO) +
LANGLLL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
SRCSTMF('/home/apache/jk/native/common/jk shm.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
' _XOPEN_SOURCE=520' 'USE_APACHE_MD5' ' _REENTRANT') +
TEXT('jk shm.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSCLOPT(*IFSIO) +
LANGLLL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
MODULE(MOD_JK/MOD_JK +
 MOD_JK/JK_AJP COM MOD_JK/JK_AJP12_W +
 MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
 MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
 MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
 MOD_JK/JK_LB_WORK +
 MOD_JK/JK_MAP MOD_JK/JK_MD5 +
 MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
 MOD_JK/JK.SOCKBUF MOD_JK/JK_URL_W_M +
 MOD_JK/JK_URL +
 MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
 MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
EXPORT(*SRCFILE) +
BNDDIR() +
TGTRLS(*CURRENT) +
SRCFILE(MOD_JK/QSRVSRC) +
SRCMBR(MOD_JK) +
USRPRF(*USER) +
BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRSCORE +
 QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')
ENDPGM

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# limitations under the License.

!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.$(APACHE20_HOME)
INTDIR=.$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.$(APACHE24_HOME)
INTDIR=.$(APACHE24_HOME)
!ELSE
!IFDEF APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.$(APACHE22_HOME)
INTDIR=.$(APACHE22_HOME)
!ENDIF
ENDIF
ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
ENDIF
!IFDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
ENDIF

TARGET=mod_jk$(SO_VERSION)$HTTPD_VERSION
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86
ALL : "$\{OUTDIR\}\$(TARGET).so"

CLEAN :
- @erase "$\{INTDIR\}\jk.res"
- @erase "$\{INTDIR\}\jk_ajp12_worker.obj"
- @erase "$\{INTDIR\}\jk_ajp13.obj"
- @erase "$\{INTDIR\}\jk_ajp13_worker.obj"
- @erase "$\{INTDIR\}\jk_ajp14.obj"
- @erase "$\{INTDIR\}\jk_ajp14_worker.obj"
- @erase "$\{INTDIR\}\jk_ajp_common.obj"
- @erase "$\{INTDIR\}\jk_connect.obj"
- @erase "$\{INTDIR\}\jk_context.obj"
- @erase "$\{INTDIR\}\jk_lb_worker.obj"
- @erase "$\{INTDIR\}\jk_map.obj"
- @erase "$\{INTDIR\}\jk_md5.obj"
- @erase "$\{INTDIR\}\jk_msg_buff.obj"
- @erase "$\{INTDIR\}\jk_pool.obj"
- @erase "$\{INTDIR\}\jk_shm.obj"
- @erase "$\{INTDIR\}\jk_sockbuf.obj"
- @erase "$\{INTDIR\}\jk_status.obj"
- @erase "$\{INTDIR\}\jk_uri_worker_map.obj"
- @erase "$\{INTDIR\}\jk_url.obj"
- @erase "$\{INTDIR\}\jk_util.obj"
- @erase "$\{INTDIR\}\jk_worker.obj"
- @erase "$\{INTDIR\}\mod_jk.obj"
- @erase "$\{INTDIR\}\mod_jk_idb"
- @erase "$\{INTDIR\}\mod_jk_pdb"
- @erase "$\{OUTDIR\}\mod_jk.exp"
- @erase "$\{OUTDIR\}\mod_jk.lib"
- @erase "$\{OUTDIR\}\$(TARGET).pdb"
- @erase "$\{OUTDIR\}\$(TARGET).so"

"$\{OUTDIR\}" :
  if not exist "$\{OUTDIR\}/$(NULL)" mkdir "$\{OUTDIR\}"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$\{OUTDIR\}\$(TARGET).bsc"
BSC32_SBRS=

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$\{OUTDIR\}\$(TARGET).pdb" /debug /machine:$\{ARCH\} /out:"$\{OUTDIR\}\$(TARGET).so"
/implib:"$\{OUTDIR\}\mod_jk.lib" /libpath:"$\{APACHE2_HOME\}\lib" /opt:ref
LINK32_OBJS="
"$\{INTDIR\}\jk_ajp12_worker.obj"
"$\{INTDIR\}\jk_ajp13.obj"
"$(INTDIR)\jk_aej13_worker.obj" \n"$(INTDIR)\jk_aej14.obj" \n"$(INTDIR)\jk_aej14_worker.obj" \n"$(INTDIR)\jk_aej_common.obj" \n"$(INTDIR)\jk_connect.obj" \n"$(INTDIR)\jk_context.obj" \n"$(INTDIR)\jk_lb_worker.obj" \n"$(INTDIR)\jk_map.obj" \n"$(INTDIR)\jk_md5.obj" \n"$(INTDIR)\jk_msg_buff.obj" \n"$(INTDIR)\jk_pool.obj" \n"$(INTDIR)\jk_shm.obj" \n"$(INTDIR)\jk_sockbuf.obj" \n"$(INTDIR)\jk_status.obj" \n"$(INTDIR)\jk_uri_worker_map.obj" \n"$(INTDIR)\jk_url.obj" \n"$(INTDIR)\jk_util.obj" \n"$(INTDIR)\jk_worker.obj" \n"$(INTDIR)\jk.res" \n"$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
 $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
@if exist $(OUTDIR)\$(TARGET).manifest \
 mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2

CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$APACHE2_HOME\include" /D "NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
 $(CPP) @<<
 $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
 $(CPP) @<<
 $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
 $(CPP) @<<
 $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::

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$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp[${INTDIR}].sbr::
 $(CPP) @<<
 $(CPP_PROJ) $<
<<

.cxx[${INTDIR}].sbr::
 $(CPP) @<<
 $(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=1 0x409 /fo"$(INTDIR)\jk.res" /i ".\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
 $(RSC) $(RSC_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp14_worker.c
"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_connect.c

"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_map.c

"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_msg_buff.c

"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_pool.c
"$(INTDIR)\jk_pool.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$\(I\NTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=\mod_jk.c
"$(INTDIR)/mod_jk.obj" : $(SOURCE) "$INTDIR"
$(CPP) $(CPP_PROJ) $(SOURCE)
P

CRTCMOD MODULE(MOD_JK/MOD_JK) +
   SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
         'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('mod_jk.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSFICOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
   SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
         'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_ajp_common.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSFICOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
   SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
         'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_ajp12_worker.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSFICOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
   SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
         'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_ajp13.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSFICOPT(*IFSIO) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMTMD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMTMD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMTMD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMTMD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TGTRL(*CURRENT) +
INC_DIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buf.c')+
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
'USE_APCMD MD5' '_REENTRANT') +
TEXT('jk_msg_buf.c') +
OPTIMIZE(40) +
LOCALE_TYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TGTRL(*CURRENT) +
INC_DIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c')+
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
'USE_APCMD MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALE_TYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TGTRL(*CURRENT) +
INC_DIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c')+
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
'USE_APCMD MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALE_TYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANG_LVL(*EXTENDED) +
TGTRL(*CURRENT) +
INC_DIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD (MOD_JK/JK URI W_M) +
SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c')+
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
'USE_APCMD MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALE_TYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_url.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'HAVE APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
PCRE LICENCE

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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,

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1.338 zlib 1.2.11

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### 2.19 bootstrap 4.3.1
2.20 bootstrap-datepicker.js n/a

2.21 bootstrap-datetimepicker 4.17.47

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2.22 bootstrap-multiselect 1.0

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2.24 Castle.core 4.3.1

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2.27 d3 3.5.2

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AUTHOR = "Eugene Ciloci"
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DATE = "May 2007"

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2.36 globalise-0.1.0a2 1.0

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2.46 Jabber2.1.1 2.1.1
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2.48 jqModal 2009.03.01 +r14

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2.49 jquery 1.7.2

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2.50 jQuery 3.4.1

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2.51 jquery-1.9.1 1.9.1

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2.56 jquery-ui-timepicker-addon 1.0.4

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2.57 jquery-validation-globalize 1.0.1

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2.59 jquery.bgiframe.min 2.1.2

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2.69 jquery.mmenu 7.3.3

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2.70 jQuery.mmenu-master 4.7.5

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2.71 jquery.mousewheel 3.0.6

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2.72 Jquery.multiselect 1.12

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2.73 jquery.tinysort 1.0.4

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4.0.30506.0

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Open Source Used In Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)

2798
2.95 Microsoft.IdentityModel 6.1.7

2.96
Microsoft.IdentityModel.Protocol.Extensions 1.0.403

2.97 Microsoft.Net.Http 2.2.28

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<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
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/* Font Definitions */
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margin-bottom:6.0pt;
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Open Source Used in Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)

2808
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2809
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2810
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2.105 Mutate.js 1.0

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Command Line Parser Library

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2.132 shepherd-0.7.1 0.7.1

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compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse_t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TLIST.cs
lib/csharp/src/Protocol/ThriftFactory.cs
lib/csharp/src/Protocol/ThriftUtil.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/ThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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L. Peter Deutsch
ghost@aladdin.com

*/

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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:

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<meta name=Generator content="Microsoft Word 14 (filtered)">
<style>
/* Font Definitions */
@font-face
{font-family: Wingdings;
panose-1:5 0 0 0 0 0 0 0 0 0;}
@font-face
{font-family:"MS Mincho";
panose-1:2 2 6 9 4 2 5 8 3 4;}
@font-face
{font-family:"SimSun";
panose-1:2 1 6 0 3 1 1 1;}
@font-face
{font-family:"Cambria Math";
panose-1:2 4 5 3 5 4 6 3 2 4;}
@font-face
{font-family:"Tahoma";
panose-1:2 1 1 6 4 3 5 4 4 2;}
@font-face
{font-family:"Trebuchet MS";
panose-1:2 1 1 6 3 2 2 2 2 4;}
@font-face
{font-family:"\@SimSun";
panose-1:2 1 6 0 3 1 1 1;}
@font-face
{font-family:"\@MS Mincho";
panose-1:2 2 6 9 4 2 5 8 3 4;}
/* Style Definitions */
p.MsoNormal, li.MsoNormal, div.MsoNormal
{ margin-top:6.0pt;
margin-right:0in;
margin-bottom:6.0pt;
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3.39 Java Architecture for XML Binding 2.2.3

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1.1

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3.67 spring-beans 3.0.3.RELEASE

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3.68 spring-context 3.0.5.RELEASE

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3.71 spymemcached 2.8.0

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David Megginson, david@megginson.com
2000-05-05

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Version 1.1

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3.81 Xerces2 Java Parser 2.8.1

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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4.41 Data Mapper for Jackson 1.9.2

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http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true

== 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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4.42 FindBugs-jsr305 1.3.9

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http://code.google.com/p/jsr-305/

4.43 fusemq-leveldb 1.1
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4.78 org.osgi.core 4.1.0

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4.81 Servlet Specification 2.5 API 6.1.14

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4.83 SLF4J API Module 1.7.5

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 */
```

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*/
package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing {link Marker} instances as
 * appropriate for the logging system currently in use.
 *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * {link IMarkerFactory} instance bound at compile time.
 *
 * <p>
 * Please note that all methods in this class are static.
 *
 * @author Ceki G\uml{c}i\uml{c}a
 */
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        }
    } catch (Exception e) {
        
    } catch (Exception e) {
/**
 * Return a Marker instance as specified by the name parameter using the
 * previously bound { @link IMarkerFactory}instance.
 * @param name The name of the { @link Marker} object to return.
 * @return marker
 */
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
 * Create a marker which is detached (even at birth) from the MarkerFactory.
 * @param name the name of the marker
 * @return a dangling marker
 * @since 1.5.1
 */
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
 * Return the { @link IMarkerFactory}instance in use.
 * <p>The IMarkerFactory instance is usually bound with this class at
 * compile time.
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

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5.6 animal-sniffer-annotations 1.17

5.7 annotations 1.3.7

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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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.

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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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
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AppleJavaExtensions
v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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5.8 ant 1.5.4

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contrib/clustering

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5.32 ASM 3.2

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5.44 async-http-client-netty-utils 2.6.0

5.45 auto-common 0.8

5.46 auto-service 1.0-rc4

5.47 aws-java-sdk-cloudfront 1.11.21

5.48 aws-java-sdk-connect 1.11.695

5.49 aws-java-sdk-core 1.11.125

5.50 aws-java-sdk-iam 1.11.391

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5.52 aws-java-sdk-kms 1.11.125

5.53 aws-java-sdk-s3 1.11.337
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 */
package com.amazonaws.services.s3.model;

/**
 * Specifies constants defining an access permission,
 * as granted to grantees in an
 * { @link AccessControlList }. Only a limited set of permission are available;
 * each one is represented as a value in this enumeration.
 */
public enum Permission {
  /**
   * Provides READ, WRITE, READ_ACP, and WRITE_ACP permissions.
   * It does not convey additional rights and is provided only for
   * convenience.
   */
  FullControl("FULL_CONTROL", "x-amz-grant-full-control"),

  /**
   * Grants permission to list the bucket when applied to a bucket.
   * Grants permission to read object data
   * and/or metadata when applied to an object.
   */
  Read("READ", "x-amz-grant-read"),

  /**
   * Grants permission to create, overwrite, and
   * delete any objects in the bucket.
   */
  */
/**
 * Grants permission to read the ACL for the applicable bucket or object.
 * <p>
 * The owner of a bucket or object always implicitly has this permission.
 * </p>
 * /
ReadAcp("READ_ACP", "x-amz-grant-read-acp"),

/**
 * Gives permission to overwrite the ACP for the applicable bucket or object.
 * <p>
 * The owner of a bucket or object always has this permission implicitly.
 * </p>
 * <p>
 * Granting this permission is equivalent to granting <code>FULL_CONTROL</code> because
 * the grant recipient can make any changes to the ACP.
 * </p>
 * /
WriteAcp("WRITE_ACP", "x-amz-grant-write-acp");

private String permissionString;
private String headerName;

private Permission(String permissionString, String headerName) {
    this.permissionString = permissionString;
    this.headerName = headerName;
}

/**
 * Returns the name of the header used to grant this permission.
 * /
public String getHeaderName() {
    return headerName;
}

/**
 * Gets the string representation of this permission object as defined by
 * Amazon S3, eg. <code>FULL_CONTROL</code>.
 * @return The string representation of this permission object as defined by
 * Amazon S3, eg. <code>FULL_CONTROL</code>.
 * /
public String toString() {
    return permissionString;
public static Permission parsePermission(String str) {
    for (Permission permission : Permission.values()) {
        if (permission.permissionString.equals(str)) {
            return permission;
        }
    }
    return null;
}

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- ActiveMQ
- Airavata
- Workflow and Computational Job Management Middleware
- Ant
- Any23
- Apache Portable Runtime libraries
- Archiva
- Aries
- Avro
- Axis
- Bigtop
- Apache Hadoop ecosystem integration and distribution project
- Buildr
- Apache BVal: JSR-303 Bean Validation Implementation and Extensions
- Camel
- Cassandra
- Clerezza
- Clerezza
- CloudStack
- CouchDB
- Comprehension and auditing of software
distributions">Creadur</a></li>
<li><a href="http://crunch.apache.org/" title="Simple and Efficient MapReduce Pipelines">Crunch</a></li>
<li><a href="http://ctakes.apache.org/" title="Natural language processing (NLP) tool for information extraction from electronic medical record clinical free-text">cTAKES</a></li>
<li><a href="http://curator.apache.org/" title="Java libraries that make using Apache ZooKeeper easier">Curator</a></li>
<li><a href="http://db.apache.org/" title="Database access">DB</a></li>
<li><a href="http://deltacloud.apache.org/" title="RESTful cloud management interface">Deltacloud</a></li>
<li><a href="http://deltaspike.apache.org/" title="Portable CDI extensions that provide useful features for Java application developers">DeltaSpike</a></li>
<li><a href="http://empire-db.apache.org/" title="Relational Data Persistence">Empire-db</a></li>
<li><a href="http://flex.apache.org/" title="Application framework for expressive web applications that deploy to all major browsers, desktops and devices.">Flex</a></li>
<li><a href="http://flume.apache.org/" title="A reliable service for efficiently collecting, aggregating, and moving large amounts of log data">Flume</a></li>
<li><a href="http://forrest.apache.org/" title="Aggregated multi-channel documentation, separation of concerns">Forrest</a></li>
<li><a href="http://giraph.apache.org/" title="Iterative graph processing system built for high scalability">Giraph</a></li>
<li><a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache Cassandra with a specific focus on Hadoop">Gora</a></li>
<li><a href="http://hadoop.apache.org/" title="Distributed computing platform">Hadoop</a></li>
<li><a href="http://hama.apache.org/" title="a Bulk Synchronous Parallel computing framework on top of Hadoop">Hama</a></li>
<li><a href="http://hbase.apache.org/" title="Hadoop Database">HBase</a></li>
<li><a href="http://helix.apache.org/" title="A cluster management framework for partitioned and replicated distributed resources">Helix</a></li>
<li><a href="http://hive.apache.org/" title="Data warehouse infrastructure using the Hadoop Database">Hive</a></li>
<li><a href="http://hc.apache.org/" title="Java toolset of low level HTTP components">HttpComponents</a></li>
<li><a href="http://isis.apache.org/" title="Framework for rapidly developing domain-driven apps in Java">Isis</a></li>
<li><a href="http://jackrabbit.apache.org/" title="Content Repository for Java">Jackrabbit</a></li>
<li><a href="http://jclouds.apache.org/" title="Java cloud APIs and abstractions">jclouds</a></li>
<li><a href="http://jspwiki.apache.org/" title="Leading open source WikiWiki engine, feature-rich and built around
standard J2EE components (Java, servlets, JSP).” JSPWiki</li>
<li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">JUDDI</a></li>
<li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
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<li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>
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<li><a href="http://mesos.apache.org/" title="a cluster manager that provides efficient resource isolation and sharing across distributed applications">Mesos</a></li>
<li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
<li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
<li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and components">MyFaces</a></li>
<li><a href="http://olingo.apache.org/" title="OASIS OData protocol libraries">Olingo</a></li>
<li><a href="http://oltu.apache.org/" title="OAuth protocol implementation in Java">Oltu</a></li>
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<li><a href="http://openmeetings.apache.org/" title="OpenMeetings: Web-Conferencing and real-time collaboration">OpenMeetings</a></li>
<li><a href="http://opennlp.apache.org/" title="Machine learning based toolkit for the processing of natural language text">OpenNLP</a></li>
PDFBox</li>
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<li><a href="http://qpid.apache.org/" title="Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)">Qpid</a></li>
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<li><a href="http://roller.apache.org/" title="Java blog server">Roller</a></li>
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<li><a href="http://spamassassin.apache.org/" title="Mail filter to identify spam">SpamAssassin</a></li>
<li><a href="http://spark.apache.org/" title="Fast and general engine for large-scale data processing">Spark</a></li>
<li><a href="http://sqoop.apache.org/" title="Bulk Data Transfer for Hadoop and Structured Datastores">Sqoop</a></li>
<li><a href="http://stanbol.apache.org/" title="Reusable components for semantic content management">Stanbol</a></li>
<li><a href="http://steve.apache.org/" title="Apache's Python based single transferable vote software system">STeVe</a></li>
<li><a href="http://storm.apache.org/" title="Distributed, real-time computation system">Storm</a></li>
<li><a href="http://tajo.apache.org/" title="Big data warehouse system on Hadoop">Tajo</a></li>
<li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
<li><a href="http://tomee.apache.org/" title="Java EE Web Profile built on Tomcat">TomEE</a></li>
Traffic Server

Turbo

Tuscany

UIMA

VCL

Velocity

VXQuery

Web Services

Whirr

Wicket

Wink

Wookie

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<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community Development</a></li>
<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and contributors">Infrastructure</a></li>
<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
<li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>

</div>

<div class="grid_3">
<h4>Community</h4>
<ul>
<li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
</ul>
</div>

<div class="grid_3">
<h4>How It Works</h4>
<ul>
<li><a href="/foundation/how-it-works.html">Introduction</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
<li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
<li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/voting.html">Voting</a></li>
</ul>
</div>

</div>

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2Nnet/bytebuddy/asm/Advice$ArgumentHandler$ForInstrumentedMethod$Default$CopyingFnet/bytebuddy/asm/Advice$ArgumentHandler$ForInstrumentedMethod$DefaultAdvice.java
5Lnet/bytebuddy/asm/HashCodeAndEqualsPlugin$Enhance6net/bytebuddy/description/type/TypeDescription$Generic.net/bytebuddy/implementation/bytecode/StackSize;0879/net/bytebuddy/implementation/bytecode/StackSize;getSize=1

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description/methoParameterList;Ljava/lang/Class; a_b
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5.73 byte-buddy 1.9.10

5.74 c3p0 0.9.5.4

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5.75 cache 1.3.1

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5.76 cache-api 1.1.0 :com.github.vladimir-bukhtoyarov

5.77 camel-core 2.21.2

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 */

package com.google.javascript.jscomp.modules;

import static com.google.common.base.Preconditions.checkNotNull;
import static com.google.common.base.Preconditions.checkState;
import com.google.auto.value.AutoValue;
import com.google.common.base.Preconditions;
import com.google.javascript.jscomp.modules.ModuleMetadataMap.ModuleMetadata;
import com.google.javascript.rhino.Node;
import javax.annotation.Nullable;

/**
 * Represents a variable bound by an import or export statement, or goog.require. This can either be
 * a single variable or a entire module namespace created by an import * statement.
 *
 * <p>See [@link Module#namespace()] and [@link Module#boundNames()] for how Bindings are used.
 */

@AutoValue
public abstract class Binding {
    // Prevent unwanted subclasses.
    Binding() {}

    /** Different ways that Bindings can be created. */
    enum CreatedBy {
        /**
         * A binding created by an export in an ES module.
         *
         *<pre>
         *   export const x = 0;
         *   export function x() {}  
         *   export {x};
         *   export * from ""; // creates bindings in the namespace
         *</pre>
         */
        EXPORT,

        /**
         * A binding created by an ES import.
         *
         *<pre>
         *   import {x} from "";
         *   import * as x from "";
         *   import x from ",
         *</pre>
         */
        IMPORT,

        /**
         * A binding created by a goog.require statement.
         *
         *<pre>
         *   const x = goog.require();
         *   const {x} = goog.require();
         *</pre>
         */
        GOOG_REQUIRE,

        /**
         * A binding created by a goog.requireType statement.
         */
    }
}
/*
 * const x = goog.requireType();
 * const {x} = goog.requireType();
 * </pre>
 */
GOOG_REQUIRE_TYPE,
/**
 * A binding created by a goog.forwardDeclare statement.
 * 
 * <pre>
 * const x = goog.forwardDeclare();
 * const {x} = goog.forwardDeclare();
 * </pre>
 */
GOOG_FORWARD_DECLARE;

/** Whether this is some goog.* dependency import */
boolean isClosureImport() {
    return this.equals(GOOG_REQUIRE)
        || this.equals(GOOG_REQUIRE_TYPE)
        || this.equals(GOOG_FORWARDDECLARE);
}

/** Binding for an exported value that is not a module namespace object. */
static Binding from(Export boundExport, Node sourceNode) {
    return new AutoValue_Binding(
        boundExport.moduleMetadata(),
        sourceNode,
        boundExport,
        /* isModuleNamespace= */ false,
        /* closureNamespace= */ boundExport.closureNamespace(),
        CreatedBy.EXPORT);
}

/** Binding for an entire module namespace created by const x = goog.require(Type)('...') */
static Binding from(
    ModuleMetadata metadata, Node sourceNode, String closureNamespace, CreatedBy createdBy) {
    Preconditions.checkArgument(
        createdBy.isClosureImport(),
        "Expected goog.require(Type) or goog.forwardDeclare, got %s",
        createdBy);
    return new AutoValue_Binding(
        metadata,
        sourceNode,
        /* originatingExport= */ null,
        /* isModuleNamespace= */ true,
closureNamespace,
createdBy);
}

/** Binding for an entire module namespace created by an <code>import *</code>. */
static Binding from(
    ModuleMetadata metadataOfBoundModule, @Nullable String closureNamespace, Node sourceNode) {
    return new AutoValue_Binding(
        metadataOfBoundModule,
        sourceNode,
        /* originatingExport= */ null,
        /* isModuleNamespace= */ true,
        closureNamespace,
        CreatedBy.IMPORT);
}

/** Copies the binding with a new source node and CreatedBy binding. */
Binding copy(Node sourceNode, CreatedBy createdBy) {
    checkNotNull(sourceNode);
    return new AutoValue_Binding(
        metadata(),
        sourceNode,
        originatingExport(),
        isModuleNamespace(),
        closureNamespace(),
        createdBy);
}

/**
* Metadata of the module this is bound to.
*/
public abstract ModuleMetadata metadata();

/**
* The AST node to use for source location when rewriting.
*/
public @Nullable

---

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public abstract Node sourceNode();

/**
 * Returns the original export if this binding was created by an export.
 * 
 * <p>For transitive exports this will still be the *original* export, not the transitive link.
 * */
@Nullable
public abstract Export originatingExport();

/** True if this represents a module namespace, e.g. created by { @code import *} */
public abstract boolean isModuleNamespace();

@Nullable
public abstract String closureNamespace();

public abstract CreatedBy createdBy();

/**
 * The name of the variable this export is bound to, assuming it is not a binding of a module
 * namespace.
 */
public final String boundName() {
    checkState(!isModuleNamespace());
    return originatingExport().localName();
}

/**
 * Returns whether or not this export is potentially mutated after module execution (i.e. in a
 * function scope).
 */
public final boolean isMutated() {
    // Module namespaces can never be mutated. They are always imported, and import bound names
    // are const.
    return !isModuleNamespace() && originatingExport().mutated();
}

/**
 * Returns whether this Binding originated from an ES import, as opposed to an export or
 * goog.require.
 */
public final boolean isCreatedByEsImport() {
    return createdBy().equals(CreatedBy.IMPORT);
}

/**
 * Returns whether this Binding originated from an ES import, as opposed to an export or
 * goog.require.
/*
public final boolean isCreatedByEsExport() {
    return createdBy().equals(CreatedBy.EXPORT);
}

/** Returns whether this Binding originated from an ES import or goog.require */
public final boolean isSomeImport() {
    return !createdBy().equals(CreatedBy.EXPORT);
}

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(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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exercise the right to control the distribution of derivative or
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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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.

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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any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free

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case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free

programs enables a greater number of people to use a large body of

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operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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entire whole, and thus to each and every part regardless of who wrote
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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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6. As an exception to the Sections above, you may also combine or
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directing the user to the copy of this License. Also, you must do one of these things:

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
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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,

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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.

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freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd

Historical notes
----------------

FreeMarker 1.x was released under the LGPL license. Later, by
community consensus, we have switched over to a BSD-style license. As
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relinquished the copyright in behalf of Visigoth Software Society.

With FreeMarker 2.3.21 the license has changed to Apache License,
Version 2.0, and the owner has changed from Visigoth Software Society
to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel
Dekany, and Jonathan Revusky.
1. WORKING WITH MAVEN
======================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)
* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your
WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you
have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code
coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release
--------------------------------------------------------------------------------
You will also have to configure maven to use your username and password to access the repository. For this, you
will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or
~/.m2/settings.xml).
Something similar to the following should be added:

<settings>

...

<servers>

...

<server>
  <id>jboss-developer</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-snapshots</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-releases</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>

...

</servers>

...
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven
will pick up
on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to

https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
==========

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group
acts as
a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are
currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------
* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no
test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and
Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional
group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------
The default run executes all tests in the functional group. To just run the tests with txt and xml output the command
is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report
If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, like so:

```
$ mvn surefire-report:report-only
```

### 2.3. Executing different groups

A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

```
$ mvn -P test-jgroups test
```

### 2.4. Executing a single test

A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

```
$ mvn -P test-XXX -Dtest=FqnTest test
```

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

```
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test
```

### 2.5. Executing all tests in a given package

This can be achieved by passing in the package name with a wildcard to the test parameter.

```
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test
```

### 2.6. Skipping the test run

It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.
To do this, simply use the maven.test.skip.exec property:

```
$ mvn -Dmaven.test.skip.exec=true install
```

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

### 2.7. Permutations

We use the term permutation to describe a group execution against a particular config. This allows us to test a variety
2.8. Running permutations manually or in an IDE
-----------------------------------------------

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson
--------------------------------------------

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

1. WORKING WITH MAVEN
-------------------------

Requirements:
* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

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Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
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...

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* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release
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You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the `servers` section of maven settings file (`$MAVEN_HOME/conf/settings.xml`, or `~/.m2/settings.xml`). Something similar to the following should be added:

```xml
<settings>
    ...

    <servers>
        ...

        <server>
            <id>jboss-developer</id>
            <username>jboss.org username</username>
            <password>jboss.org password</password>
        </server>

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            <username>jboss.org username</username>
            <password>jboss.org password</password>
        </server>

        <server>
            <id>jboss-releases</id>
            <username>jboss.org username</username>
            <password>jboss.org password</password>
        </server>

        ...

    </servers>

    ...

</settings>
```

1.3. Deploying a release to a live repository
----------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven
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on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to

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Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:
Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

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Please refer to the POM file for more properties and permutations.

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CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

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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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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.

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
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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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machine-readable source code for the Library including whatever
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uses the Library”, as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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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.

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* Documentation Location
* Third-Party Component Notices

DOCUMENTATION LOCATION

The documentation formerly contained in this file has moved into the 'doc' directory, where it is available in HTML, PDF and plaintext forms.

You may also find the latest copy of the documentation on the MySQL website at http://dev.mysql.com/doc/refman/5.1/en/connector-j.html

*******************************************************************************

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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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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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4757
Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

Version: 8.06
Last Modified: 15. Apr 2015
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<li class="level2"><div class="li"><span class="li"><a href="#using-the-driver-in-an-applet" class="inlinetoc">1.2 Using the Driver in an Applet</a></span></div>
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</li>
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</li>
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16.2. Create a Certificate with the Certificate Server

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16.5. Forcing Protocol Encryption

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17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)

17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)


17.7. Changes in Version 6.01 (1. Apr 2004)


17.27. Changes in Version 8.03 (17. Apr 2013)
17.29. Changes in Version 8.05 (9. Apr 2014)

18. Copyright
The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

Add the driver jar file to the archive attribute of the applet tag, e.g.:

```html
&lt;APPLET CODE="..." Codebase="..." ARCHIVE="Merlia.jar" WIDTH="..." HEIGHT="..."&gt;
...
&lt;/APPLET&gt;
```

or extract the jar in the directory of the applet.

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA</td>
<td>1.1</td>
<td>1.22</td>
</tr>
</tbody>
</table>

2. Getting Started

2.1 SQL Server, Java and JDBC Versions

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA</td>
<td>1.1</td>
<td>1.22</td>
</tr>
</tbody>
</table>
All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2000
- Microsoft SQL Server 7.0
- Microsoft SQL Server 6.5
- Microsoft SQL Server 2000

with all Service Packs (32 bit / 64 bit)
<table>
<thead>
<tr>
<th>Feature</th>
<th>1.22</th>
<th>2.0</th>
<th>2.0+</th>
<th>4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple Open ResultSets per Statement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>ResultSet Holdability</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
A more complete list can be found at:

http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.
The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet <hostname> or <ip address> <port number>
```

If the connection is refused then the hostname or the port number is incorrect.

### 2.4 Login Types

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications

Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you'll need to use an SQL Server login, in which case you'll need to enable SQL Server authentication or Mixed authentication. To verify the authentication type:

```
Select the SQL Server in the Enterprise Manager
Open the properties dialog
Select the security tab
```

If you want to use "Windows NT authentication" with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.

### 2.5 Driver Class Name

The class name of the driver is: **com.inet.tds.TdsDriver**

The name of the pooled driver is: **com.inet.pool.PoolDriver**

The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA

<table>
<thead>
<tr>
<th>com.inet.tds.TdsDataSource</th>
<th>This is a simple DataSource. Also named JDBC 1 DataSource.</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.inet.tds.PDataSource</td>
<td>This is pooled DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.DTCDataSource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>

For a list of DataSource Properties look in the API documentation.

### 2.6 JDBC URL Subprotocols

For a list of DataSource Properties look in the API documentation.
jdbc:inetdae7:hostname/instancename
jdbc:inetpool:servername/pipe/MSSQL$instancename/sql/query
jdbc:inetdae7:hostname
jdbc:inetdae7:hostname:portnumber
jdbc:inetdae7:hostname
jdbc:inetdae7:hostname/instancename
jdbc:inetpool:servername/pipe/pipename
jdbc:inetdae7:hostname:portnumber
The pooled driver is only part of OPTA and MERLIA.

Examples:

- `jdbc:inetpool:inetdae7:www.inetsoftware.de:1433`
- `jdbc:inetpool:inetdae7:localHost:1433`
- `jdbc:inetdae7:210.1.164.19:1433`
- `jdbc:inetpool:jdbc:inetdae7:localHost:1433`
<table>
<thead>
<tr>
<th>Language</th>
<th>Default is &quot;default is &quot;&lt;br/&gt;&quot;&quot;&lt;br/&gt;&quot;&lt;br/&gt;&quot;&lt;br/&gt;&quot;&quot; → SQL Server default language</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>The database user, if empty the current windows user is used</td>
</tr>
<tr>
<td>Password</td>
<td>Password of the database user</td>
</tr>
<tr>
<td>Charset</td>
<td>See Character Converting</td>
</tr>
<tr>
<td>initSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td>Nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>Logging</td>
<td>Default is &quot;false&quot;. If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.</td>
</tr>
<tr>
<td>Sql7</td>
<td>Default is &quot;false&quot; with &quot;inetdae&quot; &quot;true&quot; the new datatypes are supported. This property works only with the classic subprotocol &quot;inetdae&quot;.</td>
</tr>
<tr>
<td>Secure Level</td>
<td>Set the level of security with SSL.</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Prepare</td>
<td>Default is &quot;true&quot;; PreparedStatements are prepared on the SQL Server.</td>
</tr>
<tr>
<td>PrepareLiveTime</td>
<td>Default is 60 seconds. Set the time in seconds that an unused PreparedStatement handle is live before it is unprepared. A value of 0 means an unlimited live time.</td>
</tr>
<tr>
<td>LastUpdateCount</td>
<td>Default is &quot;false&quot;. If the value is &quot;true&quot; then the method executeUpdate() should return the last update count. This property is helpful if you use PreparedStatements on tables with triggers. In this case the first update count is the count of the trigger. With this property you can receive the last update count which is ever the count of your UPDATE or INSERT expression. This property makes problems with expression that return multiple update counts. In this case you receive also only the last update count.</td>
</tr>
<tr>
<td>LoginTimeout</td>
<td>Override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>QueryTimeout</td>
<td>Default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>Default is &quot;true&quot;. The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().</td>
</tr>
<tr>
<td>Appname</td>
<td>Application name (only Application and Enterprise licenses)</td>
</tr>
<tr>
<td>WSID</td>
<td>Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>useCursorsAlways</td>
<td>default is &quot;false&quot; &quot;true&quot; the method executeQuery always uses server cursors.</td>
</tr>
<tr>
<td>resultSetType</td>
<td>default is &quot;1003&quot; (ResultSet.TYPE_FORWARD_ONLY) A list of valid values can find in chapter &lt;a href=&quot;#scrolling-cursor-types&quot; title=&quot;Scrolling Cursor Types&quot;&gt;Scrolling Cursor Types&lt;/a&gt;.</td>
</tr>
<tr>
<td>useInsteadOfTrigger</td>
<td>default is &quot;false&quot; &quot;true&quot; - in a query with multiple tables all are updated in one step. You need a INSTEAD OF trigger.</td>
</tr>
</tbody>
</table>
<tr class="row24">
  <th class="col0 leftalign">statusRequest</th><td class="col1 leftalign">Set the mode with which the API requests the status of a connection. There are 2 possible modes:
  * safe (default) - an additional round trip to the database is executed.
  * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()</td>
</tr>
<tr class="row25">
  <th class="col0 leftalign">fastbatch</th><td class="col1 leftalign">default is true<br/>
Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.</td>
</tr>
<tr class="row26">
  <th class="col0 leftalign">fetchsize</th><td class="col1 leftalign">i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr class="row27">
  <th class="col0 leftalign">host</th><td class="col1 leftalign">override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property "instance";</td>
</tr>
<tr class="row28">
  <th class="col0 leftalign">instance</th><td class="col1 leftalign">override the value in the JDBC URL, required the UDP port 1434</td>
</tr>
<tr class="row29">
  <th class="col0 leftalign">port</th><td class="col1 leftalign"></td>
</tr>
<tr class="row30">
  <th class="col0 leftalign">failover</th><td class="col1 leftalign">see chapter "Failover on getConnection()"</td>
</tr>
<tr class="row31">
  <th class="col0 leftalign">mars</th><td class="col1 leftalign">Enables "true" or disables "false" the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not alltogether. This property can be used when connecting to SQL Server 2005 only.</td>
</tr>
<tr class="row32">
  <th class="col0 leftalign">packetSize</th><td class="col1 leftalign">Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.</td>
</tr>
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There are three ways to put the properties to the driver:

2. Call method `getConnection(String url, Properties info)` from the driver manager.
3. Create a `DataSource` and set the properties with the set methods.

You need to enable `Mixed Authentication` and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

**Comments of the switches:**

- `SAPWD="password"` Set the password for the `sa` account. This is required for Windows Server 2003.
- `SECURITYMODE=SQL` Set the Authentication to `Mixed Mode`. This is required to connect via TCP/IP with a non Windows program like Java.
- `DISABLENETWORKPROTOCOLS=0` Enable the TCP/IP protocol.
2.11 Connection Examples

Eight examples are included in the download file.

ClassicDriver.java

An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)

PooledDriver.java

This example shows the use of the PoolDriver. A driver with internal connection pooling.

WithDataSource.java

How to create a connection with a datasource.

WithPoolDataSource.java
How to use the PooledConnection of the driver.
</p>
</div>

<h4 id="withpoolmanagerjava">WithPoolManager.java</h4>

<div class="level4">
<p>This demonstrates the use of the PoolManager i-net PLEXA®-8482; i-net PLEXA®-8482; is an example of a pool manager. i-net PLEXAtm) comes with i-net OPTA®-8482;.
</p>
</div>

<h4 id="withjdbcrowsetjava">WithJDBCRowSet.java</h4>

<div class="level4">
<p>How to use the JDBCRowSet from i-net software (i-net OPTA®-8482;).
</p>
</div>

<h4 id="withjndi">WithJNDI.java</h4>

<div class="level4">
<p>This demonstrates the use of a DataSource with a JNDI directory.
</p>
</div>

<h4 id="withjndiandpoolmanagerjava">WithJndiAndPoolManager.java</h4>

<div class="level4">
<p>This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA®-8482;).
</p>
</div>

<h4 id="package-samplexa">Package sample.xa</h4>

<div class="level4">
<p>A sample with EJB and a XADataSource.
</p>
</div>
3. Named Pipes

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is "\sql\query", but you can change this pipe name in the server network manager.

4. Escape Clauses

The driver implements all escape clauses as follows:

4.1 Date and Time

{d 'yyyy-mm-dd'}  
{t 'hh:mm:ss[.fff]'}  
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}

4.2 Stored Procedures

{call storedProcedures('Param1', 'Param2', ...)}
{? = call storedProcedures('Param1', 'Param2', ...)}

Examples:
con.createStatement().prepareCall("call storedProcedures('Param1', 'Param2', ...)");
st.<span class="me1">execute</span>&lt;span class="br0"&gt;&amp;#40;{call MyProc('value')}&gt;&lt;/span&gt;&amp;quot;</pre>

&lmsp;
pr &lt;span class="sy0"&gt;=&lt;/span&gt; con.&lt;span class="me1">prepareStatement</span>&lt;span class="br0"&gt;&amp;#40;{call MyProc('value')}&gt;&lt;/span&gt;&lt;span class="st0">;&lt;/span&gt;&lt;span class="sy0"&gt;;</pre>

&lmsp;
pr &lt;span class="sy0"&gt;=&lt;/span&gt; con.&lt;span class="me1">prepareStatement</span>&lt;span class="br0"&gt;&amp;#40;{call MyProc( ? )}&gt;&lt;/span&gt;&lt;span class="st0">;&lt;/span&gt;&lt;span class="sy0"&gt;;</pre>

&lmsp;
pr.&lt;span class="me1">execute</span>&lt;span class="br0"&gt;&amp;#40;&lt;/span&gt;&lt;span class="br0"&gt;&amp;#41;&lt;/span&gt;&lt;span class="sy0"&gt;;&lt;/span&gt;

&amp;nbsp;
pr &lt;span class="sy0"&gt;=&lt;/span&gt; con.&lt;span class="me1">prepareStatement</span>&lt;span class="br0"&gt;&amp;#40;{call MyProc( ? )}&gt;&lt;/span&gt;&lt;span class="st0">;&lt;/span&gt;&lt;span class="sy0"&gt;;</pre>

&lmsp;
pr.&lt;span class="me1">setString</span>&lt;span class="br0"&gt;&amp;#40;&lt;/span&gt;&lt;span class="br0"&gt;&amp;#41;&lt;/span&gt;&lt;span class="st0">;&lt;/span&gt;&lt;span class="sy0"&gt;;</pre>

&lmsp;
pr.&lt;span class="me1">execute</span>&lt;span class="br0"&gt;&amp;#40;&lt;/span&gt;&lt;span class="br0"&gt;&amp;#41;&lt;/span&gt;&lt;span class="sy0"&gt;;</pre>

&lt;/div&gt;

&lt;h3 id="functions">4.3 Functions&lt;/h3&gt;
&lt;div class="level3"&gt;

&lt;p&gt;
Numeric Functions
&lt;/p&gt;
&lt;pre class="code"&gt;
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}&lt;/pre&gt;
Time and Date Functions

```
{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPADD(interval, datetime, datetime2)}
```

interval may be one of the following:

```
SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR
```

4.4 Outer Join

```
{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}
```

4.5 Encrypt

```
{encrypt N&#039;password&#039;}
```
5. Character Converting

By default character converting is disabled. To use character converting in the driver you need to append "charset=YourCharSet" to the url.

for example: "jdbc:inetdae:localhost:1433?charset=Cp1250"
or "jdbc:inetdae:localhost:1433?charset=&quot; + sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();
or "jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty("file.encoding");
or "jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();

TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.

You can test the availability of a character set with:
&"test string".getBytes( charset );
If this line executes correctly the character set is available in the current VM.

The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N.
Example: "INSERT INTO myTable(ntext field) VALUES( N#039;national text#039; )"

5.1 JDBC 4.0 API

JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. PreparedStatement.setNString(int, String). All previous functions like PreparedStatement.setString(int, String) are reduced to support ASCII characters only. If you need this compatibility then you have to use "inetdae7a" subprotocol.
If you want all String setter functions support unicode characters, use "inetdae7" subprotocol.

6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000
The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.

You can use the new datatypes if you use the jdbc url "jdbc:inetdae7:..." or set the property sql7=true.

If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.

SQL Server 2005 supports the following new data types:

- XML
and the enhanced data types:

- Varchar(max)
- NVarchar(max)
- Varbinary(max)

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of the SQL Server 2005(Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- DATE
- TIME
- DATETIME2
- DATETIMEOFFSET

The other new data types:
are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

7. PreparedStatement Performance and Data Type Mapping

7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the data type precedence rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:
If you use the set methods of a PreparedStatement then you will have the following mapping:
<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>⇐ 4000 NVARCHAR&lt;br/&gt;&gt; 4000 NTEXT</td>
<td>⇐ 8000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td>⇐ 8000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT</td>
<td>..</td>
</tr>
<tr>
<td>setClob</td>
<td>⇐ 4000 NVARCHAR&lt;br/&gt;&gt; 4000 NTEXT</td>
<td>⇐ 8000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT</td>
</tr>
<tr>
<td>setCharacterStream</td>
<td>⇐ 4000 NVARCHAR&lt;br/&gt;&gt; 4000 NTEXT</td>
<td>⇐ 8000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT</td>
</tr>
<tr>
<td>setDate</td>
<td>DATETIME</td>
<td>..</td>
</tr>
</tbody>
</table>
If you use a set method that maps to a data type with a higher precedence then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server can't use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case the MS SQL Server can detect that it can convert downward the static parameter.

**Solutions:**

1.) Use the correct set method.

2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:

   ... cast(?) as TINYINT

3.) Change the data type of the table.
7.4 Numeric columns and SQL Server 2000 SP4

BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don't match exactly the column type. For example Driver sends parameter as "decimal(38,36)" the column type is "numeric (7,0)". It seems that the index for the numeric column won't used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. "select * from testnumeric where a = CAST(? AS numeric(7,0))"

8. Scrolling Cursor Types

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fast-Forward</td>
<td>TYPE_FORWARD_ONLY-1</td>
</tr>
<tr>
<td>2</td>
<td>Forward-only</td>
<td>TYPE_FORWARD_ONLY</td>
</tr>
<tr>
<td>3</td>
<td>Insensitive keyset cursor</td>
<td>TYPE_SCROLL_INSENSITIVE</td>
</tr>
<tr>
<td>4</td>
<td>Keyset cursor</td>
<td>TYPE_SCROLL_SENSITIVE</td>
</tr>
<tr>
<td>5</td>
<td>Dynamic cursor</td>
<td>TYPE_SCROLL_SENSITIVE+1</td>
</tr>
</tbody>
</table>
Concurrency type is one of the following concurrency control options.

- **CONCUR_READ_ONLY**: Read-only cursor. You cannot modify rows in the cursor result set.
- **CONCUR_UPDATABLE**: Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all non-text, non-image values if timestamps are not available.
- **CONCUR_UPDATABLE+1**: Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.
- **CONCUR_UPDATABLE+2**: Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all non-text, non-image values.

If you set the property failover=true in the JDBC URL or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the...
JDBC url or DataSource that start with "failover" overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

```sql
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
```

To set more than one failover possibility, use the following syntax:

```sql
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
```

host[N] and port[N] must form pairs, otherwise they will be ignored.

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the "<abbr title="Application Programming Interface">API</abbr>" documentation of the PoolManager.

With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred between the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tries to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won’t be restored. For restore that, you have to executed the Statement again.

There are multiple possibilities about how to configure the Monitored Failover. It is possible to use the default implementation of the FailoverListener or to use your own implementation. The default FailoverListener is similar to the TimedFailoverListener in the samples package. To every created Connection automatically an instance of the configured FailoverListener will be added. Set a FailoverListener via Connection properties:

```
<tr class="row0">
  <td class="col0">name</td><td class="col1">default</td><td class="col2">description</td>
</tr>
<tr class="row1">
  <td class="col0">useDefaultFailoverListener</td><td>false</td>
  <td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr class="row2">
  <td class="col0">waitTimeToNextAttempt</td><td>500</td>
  <td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt</td>
</tr>
<tr class="row3">
  <td class="col0">totalTimeOfAttempts</td><td>30</td>
  <td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished</td>
</tr>
<tr class="row4">
  <td class="col0">failoverListener</td><td>-</td>
  <td>the class name of your own FailoverListener implemtation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection</td>
</tr>
```

example URLs:

```
jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10
```

For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java.
A FailoverListener can be only added to a Connection, that implements the interface TAFConnection.<br/>
Those Connection can be received from:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");

//add a FailoverListener
FailoverListener fl = new samples.MonitoredFailover().CounteredFailoverListener(99);
(TAFConnection con).addFailoverListener(fl);

//remove a FailoverListener
(TAFConnection con).removeFailoverListener(fl);
```

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection.

Example:
<p>The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:</p>

1. <strong>Modify the database</strong>
   - You can modify the database with the following SQL statement:
     ```sql
     ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON
     ```

2. <strong>initSQL</strong>
   - If you do not change the level at using of connection then you can set it at creation of the connection with:
     ```java
     initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
     ```

3. <strong>Executing a statement</strong>
   - You can also change it with the following Java line:
     ```java
     conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");
     ```

4. <strong>setTransactionIsolation</strong>
   - Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:
     ```java
     conn.setTransactionIsolation(4096);
     ```
12. Debugging

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream( System.out );DriverManager.setLogStream( new FileOutputStream(&quot;c:;\driver.log&quot;) );</td>
<td>This method is deprecated but it work with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(PrintWriter)</td>
<td>DriverManager.setPrintWriter( new PrintWriter( System.out ) )</td>
<td>work not with JDBC 1.22 driver like i-net UNA</td>
</tr>
</tbody>
</table>
| Application Server <abbr title="Graphical User Interface">GUI</abbr> | | Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC <strong>JBoss:</strong> You can set it for every DataSource in the config file with:<br/>
....<br/>
...&lt;attribute name=&quot;LoggingEnabled&quot;&gt;true&lt;/attribute&gt;&lt;br/&gt;...
| myDataSource.setPrintWriter(PrintWriter) | myDataSource.setPrintWriter( new PrintWriter( System.out ) ) | enable the logging only for connections from this DataSource |
| JDBC <abbr title="Uniform Resource Locator">URL</abbr> option "logging=true" | jdbc:inetdae7:localhost?logging=true |  

13. Support
Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.

The latest support information are available at: Support is available per email (replace at with @):

<table>
<thead>
<tr>
<th>Licensing, Pricing, Updates, ...</th>
<th>sales at inetsoftware.de</th>
</tr>
</thead>
<tbody>
<tr>
<td>i-net UNA</td>
<td>una at inetsoftware.de</td>
</tr>
<tr>
<td>i-net SPRINTA</td>
<td>sprinta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net OPTA</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net MERLIA</td>
<td>merlia at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE3</td>
<td>merlia at inetsoftware.de</td>
</tr>
</tbody>
</table>

You can find more documentation at:
15. Known problems

- SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int
  possible workarounds are:

- set integer values instead of Strings

- use JDBC URL "jdbc:netdae7a" - take care about no unicode support

- set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types

- When using named pipes, setting timeout has no effect.

- When using named pipes, cancel() has no effect.

- The method getTableName() requires a cursor or the "for browse" statement.

- Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output" and the output value is "abc       " you receive the value "abc"

- The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.

- The following methods are not supported by this release:
  - `PreparedStatement.setArray (int i, Array x)`
  - `PreparedStatement.setRef (int i, Ref x)`
  - `PreparedStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-abb-x"`
  - `CallableStatement.getObject (int i, java.util.Map map)`
  - `CallableStatement.getRef (int i)`
CallableStatement.getArray (int i)
CallableStatement.getURL ="int-i"
All method with a named parameter.
DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String
typeNamePattern, int[] types)
DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String
typeNamePattern, String attributeNamePattern)
ResultSet.getObject (int i, java.util.Map map)
ResultSet.getRef (int i)
ResultSet.getArray (int i)
ResultSet.getURL ="int-i"
ResultSet.updateArray (int i, Array x)
ResultSet.updateRef (int i, Ref x)
All setXXX methods in Blob and Clob.

16. Using SSL connections

If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

a server-wide certificate on the computer with the MS SQL Server 2000.

Note: You don’t need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

WARNING: After you have installed this certificate, connecting via ODBC only works with
SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

<ul>
<li>The JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.</li>
</ul>

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

<h3>16.1. Create a Certificate Request</h3>

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

<ul>
<li>Run the Internet Services Manager that is located in the Administrative Tools folder.</li>
<li>Right-click on the Default Web Site node for the server and select Properties; from the context menu.</li>
<li>Click on the Directory Security tab.</li>
<li>Click on the Server Certificate button. A wizard should appear.</li>
<li>The Create a new certificate radio button should be selected. Click the Next button.</li>
<li>Click the Next button.</li>
<li>Enter your organization name and unit and click the Next button;</li>
</ul>
In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.<div>
</div>

Enter your State and City. Click the "Next" button.<div>
</div>

Accept the default file name of c:\certreq.txt and click the "Next" button.<div>
</div>

Click the Next button, then click Finish.<div>
</div>

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.<div>
</div>

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.<div>
</div>

Run Internet Explorer and enter the <abbr title="Uniform Resource Locator">URL</abbr> http://YourCertificateServer/certsrv.<div>
</div>

Select "Request a Certificate" and click "Next".<div>
</div>

Select "Advanced Request" and click "Next".<div>
</div>

Select the PKCS#10 option and click "Next".<div>
</div>

Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.<div>
</div>

It will tell you the request is pending. Click on the home hyperlink at the
Run the Certificate Authority application that is located under Administrative Tools.

Click on Pending Requests. You will see the request that you just made in there.

Right-click on the request and select All Tasks/Issue.

Now, go back to the computer that runs the SQL Server/IIS where you made the request from. Select the "Check on pending certificate" option and click the "Next" button.

You should see the "Saved-Request Certificate" in there now. Click the "Next" button.

Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

Right-click on c:\certnew.cer in Explorer and select Install from the context menu.

Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the "computer account".

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Right-click on c:\certnew.cer in Explorer and select Install from the context menu.

Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the "computer account".

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.
<ul>
<li class="level1">Start the MMC.EXE and add the Certificates snap-in for the "computer account".</li>
<li class="level1">Select the Certificate in the "Personal" or "Own Certificate" Folder</li>
<li class="level1">Drop the Certificate</li>
</ul>

<h3 id="forcing-protocol-encryption">16.5. Forcing Protocol Encryption</h3>

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

<h3 id="the-driver-option-securelevel">16.6 The Driver Option secureLevel</h3>

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1 (default)</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
<tr>
<td>3</td>
<td>Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</td>
</tr>
</tbody>
</table>
17. Changes

17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)

- For XA support the extended procedures was replaced with a NT-Service.
- The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.

17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.
- ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).
- A bug with wasNull() and getXXX( x, Calendar) was fixed.
- A bug with isFirst() in CachedRowSet was fixed.
- A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.
- A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.
- A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.
- The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.
- Property initSQL was added.
A loop for name resolution of the instance name was added.
A reconnect for the DTCProxy was added if a network error occur.
In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

A bug with CachedRowSet and setXXX was fixed. It works without clearParameters() now.
A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".
A dead-lock that could occur in PoolManager.closeAll() was fixed.
The error "Cookie from MSDTC is null" was fixed.
A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.
Method PoolManager.closeConnection(Connection) was added.
Errors in ResultSet.close() are caught now.
A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.
The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.
Connections with a read timeout are removed from the connection pool.

A bug with CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.
<ul>
<li class="level1"><div class="li">The return value of supportsStatementPooling() was changed.</div></li>
<li class="level1"><div class="li">A bug with a DataSource not from the JNDI and equals() was fixed.</div></li>
<li class="level1"><div class="li">The method getParameterMetaData() was implemented.</div></li>
<li class="level1"><div class="li">The methods setImpltran() and getImpltran() were added.</div></li>
<li class="level1"><div class="li">Timestamp objects can be created (read) faster with JDK 1.4.x now.</div></li>
<li class="level1"><div class="li">A NullPointerException after deserialize of a CachedRowSet was fixed.</div></li>
<li class="level1"><div class="li">The method PreparedStatement.getMetaData() work also with GROUP BY now.</div></li>
<li class="level1"><div class="li">Datetime formats with short month and days like '1999-5-5' are supported now.</div></li>
<li class="level1"><div class="li">A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.</div></li>
<li class="level1"><div class="li">The AsciiStream always sends Ascii data (also in unicode mode).</div></li>
<li class="level1"><div class="li">The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.</div></li>
<li class="level1"><div class="li">The call setObject( x, value, Types.BIT ) accepts numeric Strings now.</div></li>
<li class="level1"><div class="li">The detecting of the default codepage of the SQL Server 2000 was changed.</div></li>
<li class="level1"><div class="li">The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.</div></li>
<li class="level1"><div class="li">The methods getSystemFunctions(), getStringFunctions(), getDateimeFunctions() and getNumericFunctions() were refactored.</div></li>
<li class="level1"><div class="li">The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.</div></li>
<li class="level1"><div class="li">The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.</div></li>
<li class="level1"><div class="li">Clob and Blob support for updateObject(..) was added.</div></li>
<li class="level1"><div class="li">The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.</div></li>
</ul>
CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.</li>
</ul>

The synchonized from Connection.close() was removed.</div>
</li>
</ul>

<h3 id="changes-in-version-50301-merlia-20301">17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)</h3>

- The truncate of SP output parameter without input value on length 255 was fixed.</li>


- Support for SSL was added.</li>


- A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.</li>

- A NullPointerException with DataSources was fixed. The bug exists since 6.00.</li>

- The methods setSecureLevel() and getSecureLevel() were added.</li>

- The regression that connect to MS SQL Server 6.5 fails was fixed.</li>

- The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.</li>

- A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp,
Calendar) and CachedRowSet.setTime(x, Time, Calendar) was fixed.

- The ClassNotFoundException with SSL on the console with JDK 1.3 was removed.
- The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.
- Fixes in isAfterLast and isBeforeFirst for empty Resultsets
- A bug with ResultSet.updateString(x, null) was fixed. The bug exists since 5.03.01.
- A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.
- Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.
- A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.
- The wrong message "Statement.cancel:Statement is currently not running" on running Statements was removed.
- The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.
- The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (FTP), 80 (HTTP) or 1521 (Oracle).
- The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.
- Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non-English characters work.
- The methods setAppName() and getAppname() were added to the DataSources.
The methods setFulltran() and getFulltran() were added to the DataSources.

Support for the new protocol of SQLServer 2005 was added.

Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

The property lastUpdateCount was added.

The sql state "100029" was changed to "07001". It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.

A bug with Statement.cancel() and SSL and forceEncryption was fixed.

The methods DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.

Some changes on the time behavior after a call of cancel() or if a query timeout occurs.

The timing for resolving the instance name was changed.

The property WSID was added.

The restoring of the connection after an query timeout is faster now if the MS SQL Server does not need to roll back.

Support for the data type BIGINT in the method updateObject(i,x) was added.

The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.
If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.

An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.

An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.

Connection failover was expanded to set more than one failoverhost.

Added setLogging(String) and setProperty(String) to class TdsDataSource.

The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.

The bug in DataSource overwriting the original host/port information in failover case has been fixed.

The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.

A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.

CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).

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Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.

Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message "Invalid object name" had been issued by mistake.

The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,9999000000). This is fixed.

Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.

Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

Method PoolManager.dispose() was added.

The exception "Unknown TDS packet type: 18" will not be thrown anymore.

Performance increasing: executing a prepared statement runs faster at the first execute call.

"Create View ..." and "Create Procedure ..." executed as PreparedStatement now works with SQL Server 2005.

The ResultSet created by Statement.executeQuery() now is from the type defined with Connection.createStatement(int,int).

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

Reading out type money and type smallmoney from sql_variant column was fixed.

<ul>
<li class="level1"><div class="li"> New driver property "dstsave"</div></li>
<li class="level1"><div class="li"> Receiving a BigDecimal from a BIT column is implemented now. (Threw a
NumberFormatException before)</div></li>
<li class="level1"><div class="li"> Reading NULL values from MONEY columns with getDouble() has been fixed
to not throw an Exception anymore.</div></li>
<li class="level1"><div class="li"> Reading values from MONEY columns with getDouble() has been fixed to
return correct values.</div></li>
<li class="level1"><div class="li"> Since version 6.05 CachedRowSet.populate(ResultSet) didn't work.
This is fixed now.</div></li>
<li class="level1"><div class="li"> There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally
was shared between the copies. This produced Exceptions if one CachedRowSet was closed.</div></li>
<li class="level1"><div class="li"> An excrescent stacktrace log output was removed. (SocketException)</div></li>
<li class="level1"><div class="li"> TdsDriver.getPropertyInfo() was extended, more properties. Values and choices
were added.</div></li>
<li class="level1"><div class="li"> Since version 6.05: If a statement was already prepared, executing it as batch
failed.</div></li>
<li class="level1"><div class="li"> SQL Server 2005: Fixed a protocol problem with setting a Boolean value and
Types.Bit to PreparedStatement.setObject().</div></li>
<li class="level1"><div class="li"> Behaviour change for input parameter that are streams. Those parameter have to
reset for every execution.</div></li>
<li class="level1"><div class="li"> PreparedStatement.setObject(int, Object, int, int) and
PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and
InputStream values in addition.</div></li>
<li class="level1"><div class="li"> since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was
executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.</div></li>
<li class="level1"><div class="li"> since 6.04.12, prepare end execute statements didn't work with SQL
Server 7.</div></li>
<li class="level1"><div class="li"> Multiple protocol changes to adapt driver to final SQL Server 2005. Fix the bug
with transaction.</div></li>
<li class="level1"><div class="li"> Adapted meta data requests to changes made in final SQL Server 2005.</div></li>
<li class="level1"><div class="li"> In very seldom cases ResultSet.getString() was returning wrong values in a
multiprocessor environment.</li>
</ul>


<ul>
<li class="level1"><div class="li"> When the PreparedStatement contained a character sequence in SQL like 
 &amp;#039;&amp;#8211;&amp;#039;, the parameters following were ignored.</div>
</li>
<li class="level1"><div class="li"> Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC URL)</div>
</li>
<li class="level1"><div class="li"> The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.</div>
</li>
<li class="level1"><div class="li"> If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.</div>
</li>
<li class="level1"><div class="li"> Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.</div>
</li>
<li class="level1"><div class="li"> Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.</div>
</li>
<li class="level1"><div class="li"> The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn't regard the max data types of SQL Server 2005. An &quot;unknown type&quot; Exception was thrown before.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: PreparedStatement.setString with empty String value sends null instead of empty String.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error &quot;column type XX is unknown&quot;.</div>
</li>
<li class="level1"><div class="li"> An &quot;ArrayIndexOutOfBoundsException: 2&quot; with PreparedStatement.executeUpdate() was fixed. The exception could occur with an additional PreparedStatement pool.</div>
</li>
<li class="level1"><div class="li"> Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.</div>
</li>
</ul>
NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.

If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 MB are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.
Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.

The warnings of getTransactionIsolation() are ignored now.

The bulk transfer limit was reduced from 200 MB to 100 MB.

A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of dstSave was changed to true.

Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.

Transaction isolation snapshot was added.

The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.
ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.

PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.

The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.

A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.

A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.

The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.

Some protocol violations with the data type XML were fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>
[xyz2005]Could not find server 'xyz2005' in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".

A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.
<li class="level1">Integrated Windows Authentication for TCP/IP connections was added.</li>

<li class="level1">An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.</li>

<li class="level1">The methods getFunctions and getFunctionColumns are now implemented.</li>

<li class="level1">The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.</li>


<ul class="level3">
  <li class="level1">Property statusRequest added.</li>
  <li class="level1">An encoding bug with the XML data type of the SQL Server 2005 was fixed.</li>
  <li class="level1">The following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran, impltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].</li>
</ul>


<ul class="level3">
  <li class="level1">The error &quot;The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly.&quot; with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.</li>
  <li class="level1">The follow SQL &quot;SELECT {ts '2007-10-19 10:20:30.000'}&quot; returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.</li>
  <li class="level1">A regression in CachedRowSource with data type NTEXT has produce an error like &quot;The data types ntext and nvarchar are incompatible in the is operator.&quot;.</li>
  <li class="level1">Instances of PDataSource could not have been serialized.</li>
</ul>

<em>hostProcess</em> is supported as client property now. It returns the id
identifying the connection on the host. This property can also be seen in the system table `<em>sysprocesses</em>`.
It is also used for JDBC logging.</div>

With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception „Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>
[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;)
</div>

A NullPointerException with deserialize of the CachedRowSet was fixed.</div>

The methods deleteRow() with the SQL Server 2005 SP2 could throw the exception „Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>
[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;)
</div>

Fix a bug with Windows NT authentication and SQL Server 2005.</div>

Connection property resultSetType added.</div>

A fix for the message „Fatal error on prepare. Connection will be closed.&quot; which occurred with mars=true and SQL Server 2005 was fixed.</div>

The error „Fatal error on prepare. Connection will be closed.&quot; which occurred with a very fast cancel() was fixed.</div>

The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.</div>

The error message „Could not find prepared statement with handle 0.&quot; was fixed.</div>

The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.</div>

The method DataSource.setUrl was added.</div>

The call ResultSet.findColumn( &quot;&quot; ) did not find empty columns.</div>

A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error „Error converting data type decimal to
Some error handling was added for connecting to prevent problems in stress conditions.

The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.

A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.

There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.

Connection property resultSetType was not used for PreparedStatement and CallableStatement.

There could be a very rare exception &quot;You are tried to connect to SQL Server 6.5 with the sql7 mode.&quot; with SQL Server 2005 when calling getConnection().

Classes DTCDatasource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.

Empty strings in CacheRowSet changed to null values after serialization.

A very rare &quot;ArrayIndexOutOfBoundsException: Array index out of range: 0&quot; on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary key.

The inactive timeout of the PoolManager is now reset with every method call.

The property fastbatch was added.
A possible hanging in socket.skip() after a timeout or cancel was fixed.

An endless loop in ResultSet.findColumn(String) with empty column name was fixed.

Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.

The error "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.

Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.

Fixed some bugs in ParameterMetaData.

Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.

A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.

Fixed some bugs in setClientInfo(String,String) and optimized performance.

Removed the finalize() method from the Connection object.

Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().

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Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().


Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.

A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.

An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.

With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.

A memory leak in the DTCProxy was fixed.

Long-running XA transactions were rolled back after 10 minutes under very rare conditions.

Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.

Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.

Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.

Added property packetSize and changed the default from server default to 8000.
<li class="level1">Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.</li>
<li class="level1">Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.</li>
<li class="level1">The method getClob() returned wrong data for data type VARCHAR(MAX).</li>
<li class="level1">Changed the default value of impltran for PDataSource to false.</li>

<ul class="level3">
<li class="level1">A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in <abbr title="American Standard Code for Information Interchange">ASCII</abbr> mode (sub protocol inetdae6 and inetdae7a).</li>
<li class="level1">A regression with ParameterMetaData note setting parameters was fixed.</li>
<li class="level1">An ArrayIndexOutOfBoundsException on ResulSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.</li>
<li class="level1">A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.</li>
</ul>

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>
<ul class="level3">
<li class="level1">A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.</li>
</ul>

<li class="level1"><div class="li"> Does not use the package sun.misc.* on Java 6 and newer. </div>
</li>
</ul>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached </div>
</li>
<li class="level1"><div class="li"> Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added. </div>
</li>
<li class="level1"><div class="li"> Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7. </div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added support for VNN (virtual network names) together with instance names. </div>
</li>
<li class="level1"><div class="li"> Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow. </div>
</li>
<li class="level1"><div class="li"> No longer write the password to the driver log. </div>
</li>
<li class="level1"><div class="li"> Add the interface NtlmHandshake to support an external NTLM login source. </div>
</li>
</ul>
</div>

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src/plugin/lib-jakarta-poi/lib/poi-3.5-beta4-20081128.jar

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Anders Moeller
amoeller@brics.dk

src/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/parse-html/lib/tagsoup-1.2.jar

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src/plugin/parse-pdf/lib/PDFBox-0.7.4-dev.jar

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src/plugin/lib-xml/lib/jdom.jar

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src/plugin/lib-xml/lib/saxpath.jar

/*--

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*/

src/plugin/lib-xml/lib/xercesImpl.jar

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these notices.

Once this change is made in a given copy, it is irreversible for

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If distribution of object code is made by offering access to copy

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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.

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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You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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
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materials or that you have already sent this user a copy.

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For an executable, the required form of the "work that uses the

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Library" must include any data and utility programs needed for

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reproducing the executable from it. However, as a special exception,

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the materials to be distributed need not include anything that is

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normally distributed (in either source or binary form) with the major

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components (compiler, kernel, and so on) of the operating system on

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which the executable runs, unless that component itself accompanies

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the executable.

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It may happen that this requirement contradicts the license

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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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Library side-by-side in a single library together with other library
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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freemarker/ext/jsp/web-app_2_2.dtd
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freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd

Historical notes
----------------

FreeMarker 1.x was released under the LGPL license. Later, by community consensus, we have switched over to a BSD-style license. As of FreeMarker 2.2pre1, the original author, Benjamin Geer, has relinquished the copyright in behalf of Visigoth Software Society.

With FreeMarker 2.3.21 the license has changed to Apache License, Version 2.0, and the owner has changed from Visigoth Software Society to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel Dekany, and Jonathan Revusky.

1. WORKING WITH MAVEN
=======================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.
* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

```java
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...```

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...

  <servers>
    ...

    <server>
      <id>jboss-developer</id>
      <username>your-username</username>
      <password>your-password</password>
    </server>
  ...
</servers>
```
1.3. Deploying a release to a live repository

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to

https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are run as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups

* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------
The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, ike so:

$ mvn surefire-report:report-only

2.3. Executing different groups
-------------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test
----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.
To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE
-----------------------------------------------
Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:
Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson
--------------------------------------------

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

1. WORKING WITH MAVEN
=====================

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* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

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* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

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* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
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at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
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...
This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch
to Sun JDK 5 or 6 to generate documentation.

* maven install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition
which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download
(in target/distribution)

* maven deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your
WebDAV
username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you
have
a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* maven clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code
coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release
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You will also have to configure maven to use your username and password to access the repository. For this, you
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~/.m2/settings.xml).
Something similar to the following should be added:

<settings>
...
 <servers>
...
 <server>
  <id>jboss-developer</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
 </server>
 <server>
  <id>jboss-snapshots</id>
  <username>jboss.org username</username>
</settings>
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up
on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to
https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
==========

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Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, like so:

$ mvn surefire-report:report-only

2.3. Executing different groups
-------------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test
----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.
To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE
-----------------------------------------------
Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups” group tests or the DummyTransactionManager for "transaction” group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups” group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction” group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson
---------------------------------------------
CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

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* Third-Party Component Notices

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
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.

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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.

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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.

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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Preamble

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the

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distribute the source code, even though third parties are not

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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)
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* Third-Party Component Notices

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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.

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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directing the user to the copy of this License. Also, you must do one
of these things:

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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Preamble

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the library.
We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
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operating system, as well as its variant, the GNU/Linux operating
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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b) You must cause the files modified to carry prominent notices

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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

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entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or

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In addition, mere aggregation of another work not based on the Library

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange. If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
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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.

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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
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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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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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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.

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<h1>Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA</h1>

<p>Version: 8.06<br>Last Modified: 15. Apr 2015</p>

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17.7. Changes in Version 6.01 (1. Apr 2004)
17.27. Changes in Version 8.03 (17. Apr 2013)
1. Installation

1.1 Using the Driver in a Java Application

The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

1.2 Using the Driver in an Applet

Add the driver jar file to the archive attribute of the applet tag, e.g.:

```html
&lt;APPLET CODE="..." Codebase="..." ARCHIVE="Merlia.jar" WIDTH="100%" HEIGHT="100%"&gt;
...&lt;/APPLET&gt;
```
or extract the jar in the directory of the applet.
</p>
</div>

<h2 id="getting-started">2. Getting Started</h2>

<h3 id="sql-server-java-and-jdbc-versions">2.1 SQL Server, Java and JDBC Versions</h3>

<dl class="level3">
  <dt class="col0">Product</dt>
  <dd class="col1">minimum required JDK version</dd>
  <dd class="col2">JDBC Version</dd>
  <tr class="row0"><td class="col0">UNA</td><td class="col1">1.1</td><td class="col2">1.22</td></tr>
  <tr class="row1"><td class="col0">SPRINTA</td><td class="col1">1.2</td><td class="col2">2.0</td></tr>
  <tr class="row2"><td class="col0">OPTA</td><td class="col1">1.2</td><td class="col2">2.0 + Optional Package</td></tr>
  <tr class="row3"><td class="col0">MERLIA</td><td class="col1">1.4</td><td class="col2">3.0 (with Java 6.0)</td></tr>
</dl>

All drivers support the following SQL Server versions:
</div>
Microsoft SQL Server 6.5 with all Service Packs (32 bit / 64 bit)

### Implemented Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API</td>
<td>1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
A more complete list can be found at:

http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:
For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```bash
telnet <span class="sy0">hostname</span> or <span class="sy0">ip address</span> <span class="sy0">port number</span>
```

If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications
Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you'll need to use an SQL Server login, in which case you'll need to enable &quot;SQL Server authentication&quot; or &quot;Mixed authentication&quot;. To verify the authentication type:

- Select the SQL Server in the Enterprise Manager
- Open the properties dialog
- Select the security tab

If you want to use &quot;Windows NT authentication&quot; with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.

The class name of the driver is: <strong>com.inet.tds.TdsDriver</strong>
The name of the pooled driver is: <strong>com.inet.pool.PoolDriver</strong>
The pooled driver is only part of OPTA and MERLIA.
The following DataSources are only available in OPTA and MERLIA

<p>| com.inet.tds.TdsDataSource | This is a simple DataSource. Also named JDBC 1 DataSource. |</p>
<table>
<thead>
<tr>
<th>com.inet.tds.PDataSource</th>
<th>This is pooled DataSource.</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.inet.tds.DTCDataSource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>

For a list of DataSource Properties look in the <a href="doc/index.html" target="_blank" class="wikilink1">API documentation</a>.

### 2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>jdbc:inetdae7: ....</th>
<th>support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&amp;sql7=true)</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7a: ....</td>
<td>support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 &lt;abbr title=&quot;Application Programming Interface&quot;&gt;API&lt;/abbr&gt; compliance is required. &lt;a href=&quot;#jdbc-40-api&quot; title=&quot;see character converting JDBC 4.0 API&quot; class=&quot;wikilink1&quot;&gt;see character converting JDBC 4.0 API&lt;/a&gt;</td>
</tr>
<tr>
<td>jdbc:inetdae6: ....</td>
<td>SQL Server 6.5 compatible mode (passwords are transfered plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: ....</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetpool: ....</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>
JDBC URL Syntax of the Pooled Driver

The pooled driver is only part of OPTA and MERLIA.

Examples:

Examples:

Examples:
<h3 id="implemented-driver-properties">2.9 Implemented Driver Properties</h3>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>database</td>
<td>default is the user default database</td>
</tr>
<tr>
<td>language</td>
<td>default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td>user</td>
<td>the database user, if empty the current windows user is used</td>
</tr>
<tr>
<td>password</td>
<td>password of the database user</td>
</tr>
<tr>
<td>charset</td>
<td>see Character Converting</td>
</tr>
<tr>
<td>initSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
</tbody>
</table>
nowarnings           &quot;true&quot; getWarnings() returns null

logging              default is &quot;false&quot;
If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.

sql7                 default is &quot;false&quot; with &quot;true&quot; the new datatypes are supported
this property works only with the classic subprotocol &quot;true&quot;

secureLevel          default is 1; set the level of security with SSL

prepare              default is &quot;true&quot;, PreparedStatements are prepared on the SQL Server,
&quot;false&quot; the driver sends for every call of execute() all data

prepareLiveTime      default is 60
Set the time in seconds that an unused PreparedStatement handle is live before it is unprepared. A value of 0 means an unlimited live time.

lastUpdateCount      default is &quot;false&quot;
If the value is &quot;true&quot; then the method executeUpdate() should return the last update count. This property is helpful if you use PreparedStatements on tables with triggers. In this case the first update count is the count of the trigger. With this property you can receive the last update count which is ever the count of your UPDATE or INSERT expression. This property make problems with expression that return multiple update counts. In this case you receive also only the last update count.

loginTimeout         override the value from
<tr class="row14">
<th class="col0 leftalign"> queryTimeout            </th><td class="col1 leftalign"> default is 5 * loginTimeout. Set the default query timeout for all Statements. </td>
</tr>
<tr class="row15">
<th class="col0 leftalign"> JAVA_OBJECT            </th><td class="col1 leftalign"> default is "true"
<br/>The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject(). </td>
</tr>
<tr class="row16">
<th class="col0 leftalign"> appname              </th><td class="col1 leftalign"> Application name (only Application and Enterprise licenses) </td>
</tr>
<tr class="row17">
<th class="col0 leftalign"> WSID                 </th><td class="col1 leftalign"> Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME(). </td>
</tr>
<tr class="row18">
<th class="col0 leftalign"> useCursorsAlways     </th><td class="col1 leftalign"> default is "false"
<br/>"true" the method executeQuery always uses server cursors. </td>
</tr>
<tr class="row19">
<th class="col0 leftalign"> resultSetType        </th><td class="col1 leftalign"> default is "1003" (ResultSet.TYPE_FORWARD_ONLY) <br/>A list of valid values can find in chapter <a href="#scrolling-cursor-types" title="Scrolling Cursor Types" class="wikilink1">Scrolling Cursor Types</a>.</td>
</tr>
<tr class="row20">
<th class="col0 leftalign"> useInsteadOfTrigger  </th><td class="col1 leftalign"> default is "false"<br/>"true" - in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger. </td>
</tr>
<tr class="row21">
<th class="col0 leftalign"> impltran             </th><td class="col1 leftalign"> with Driver the default is "true" for compatibility with the JDBC-ODBC bridge.<br/>with DataSource the default is false; to reduce deadlock problems<br/>If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction. </td>
</tr>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>fulltran</td>
<td><code>true</code> by default, creates a transaction with <code>setAutoCommit(false)</code>; <code>false</code> only if needed. With fulltran=true the method <code>setAutoCommit()</code> uses <code>BEGIN TRAN</code> and <code>COMMIT TRANS</code> if the flag auto commit is set then there will always be a running transaction. With fulltran=false the method <code>setAutoCommit()</code> uses <code>SET IMPLICIT_TRANSACTIONS ON</code> and <code>SET IMPLICIT_TRANSACTIONS OFF</code> if the flag auto commit is set then the transactions will only start if needed. More information on these SQL expressions and their behaviour can be found in the MSSQL Server Online Manual.</td>
</tr>
<tr>
<td>dstsave</td>
<td>Default is true. Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the API requests the status of a connection. There are 2 possible modes:  * safe (default) - an additional round trip to the database is executed.  * fast - the current value of an internal variable is returned. Currently this has only an effect for <code>getTransactionIsolationLevel()</code>.</td>
</tr>
<tr>
<td>fastbatch</td>
<td>Default is true. Control if <code>executeBatch()</code> should use one round trip or execute every command as a single command. If <code>fastbatch=true</code> then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use <code>fastbatch=false</code>.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>Default is 7. i-net UNA only, the method <code>executeQuery()</code> always uses server cursors with this fetch size. The other drivers can use <code>Statement.setFetchSize()</code>.</td>
</tr>
<tr>
<td>host</td>
<td>Override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property <code>instance</code>.</td>
</tr>
<tr>
<td>instance</td>
<td>Override the value in the JDBC URL, required the UDP port 1434.</td>
</tr>
<tr>
<td>port</td>
<td>Override the value in the JDBC URL.</td>
</tr>
</tbody>
</table>
failover see chapter "Failover on getConnection()"

mars Enables ("true") or disables ("false") the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.

default is jdbc4 Which data type constant should be used from the driver. Available options are jdbc3, jdbc4 and odbc. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.

default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.

append the properties to the URL like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch

call method getConnection(String url, Properties info) from the driver manager.

create a DataSource and set the properties with the set methods.

There are three ways to put the properties to the driver:

Th
You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

Comments of the switches:

- `SAPWD="password"`
  - Set the password for the sa account. This is required for Windows Server 2003.

- `SECURITYMODE=SQL`
  - Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non Windows program like Java.

- `DISABLENETWORKPROTOCOLS=0`
  - Enable the TCP/IP protocol

Eight examples are included in the download file.

An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)
This example shows the use of the PoolDriver. A driver with internal connection pooling.

How to create a connection with a datasource.

How to use the PooledConnection of the driver.

This demonstrates the use of the PoolManager i-net PLEXA™ is an example of a pool manager. i-net PLEXAtm) comes with i-net OPTA™.

How to use the JDBCRowSet from i-net software (i-net OPTA™).

This demonstrates the use of a DataSource with a JNDI directory.
This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA® #8482:).

A sample with EJB and a XADataSource.

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is "sql/query", but you can change this pipe name in the server network manager.

The driver implements all escape clauses as follows:
4.1 Date and Time

```java
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}
```

4.2 Stored Procedures

```java
{call storedProcedures(&#039;Param1'[,,&#039;Param2'[,][,][...])}
{? = call storedProcedures(&#039;Param1'[,,&#039;Param2'[,][,][...])}
```

Examples:

```java
st = con.createStatement();
st.executeUpdate("{call MyProc('value')}");

pr = con.prepareStatement("{call MyProc('value')}");
pr.executeQuery();
pr.setString("value");
pr.executeQuery();
```

4.3 Functions

Numeric Functions

```java
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
```
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}

<p>Time and Date Functions</p>
<pre class="code">{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPAADD(interval, datetime, datetime2)}</pre>

<p>interval may be one of the following:</p>
<pre class="code">SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY</pre>
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR

</div>

<h3 id="outer-join">4.4 Outer Join</h3>
<div class="level3">
<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>
</div>

<h3 id="encrypt">4.5 Encrypt</h3>
<div class="level3">
<pre class="code">{encrypt N#039;password#039;}</pre>
</div>

<h2 id="character-converting">5. Character Converting</h2>
<div class="level2">
<p>By default character converting is disabled. To use character converting in the driver you need to append &quot; charset=YourCharSet&quot; to the url.</p>
</div>

<p>for example: &quot;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;.&lt;br/&gt;
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();&lt;br/&gt;
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;);&lt;br/&gt;
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();&lt;br/&gt;

TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.&lt;br/&gt;

You can test the availability of a character set with:&lt;br/&gt;
&quot;test string&quot;.getBytes( charset );&lt;br/&gt;
If this line executes correctly the character set is available in the current VM.&lt;br/&gt;

The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N. &lt;br/&gt;
Example: &quot;INSERT INTO myTable(ntext field) VALUES( N#039;national text#039; )&quot;.&lt;/p&gt;
</div>
5.1 JDBC 4.0 API

JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. PreparedStatement.setNString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support <abbr title="American Standard Code for Information Interchange">ASCII</abbr> characters only. If you need this compatibility then you have to use "inetdae7a" subprotocol. If you want all String setter functions support unicode characters, use "inetdae7" subprotocol.

6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.

You can use the new datatypes if you use the jdbc url "jdbc:inetdae7:..." or set the property sql7=true.

If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OFFER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.
6.2 New Data types with SQL Server 2005

SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

- Varchar(max)
- NVarchar(max)
- Varbinary(max)

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of SQL Server 2005(Yukon) you don’t need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

6.3 New Data types with SQL Server 2008
With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- `DATE`
- `TIME`
- `DATETIME2`
- `DATETIMEOFFSET`

The other new data types:

- `GEOGRAPHY`
- `GEOMETRY`
- `HIERACHYID`

are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

When two expressions of different data types are combined by an operator, the data type precedence rules specify which data type is converted into the other. The data type with the lower
preference is converted to the data type with the higher precedence.
</p>

<p>This is the precedence order for the MS SQL Server data types:
</p>

<ul>
<li class="level1"><div class="li"> sql_variant (highest)</div></li>
<li class="level1"><div class="li"> datetime</div></li>
<li class="level1"><div class="li"> smalldatetime</div></li>
<li class="level1"><div class="li"> float</div></li>
<li class="level1"><div class="li"> real</div></li>
<li class="level1"><div class="li"> decimal</div></li>
<li class="level1"><div class="li"> money</div></li>
<li class="level1"><div class="li"> smallmoney</div></li>
<li class="level1"><div class="li"> bigint</div></li>
<li class="level1"><div class="li"> int</div></li>
<li class="level1"><div class="li"> smallint</div></li>
<li class="level1"><div class="li"> tinyint</div></li>
<li class="level1"><div class="li"> bit</div></li>
<li class="level1"><div class="li"> ntext</div></li>
<li class="level1"><div class="li"> text</div></li>
<li class="level1"><div class="li"> image</div></li>
<li class="level1"><div class="li"> timestamp</div></li>
<li class="level1"><div class="li"> uniqueidentifier</div></li>
<li class="level1"><div class="li"> nvarchar</div></li>
<li class="level1"><div class="li"> nchar</div></li>
<li class="level1"><div class="li"> varchar</div></li>
</ul>
If you use the set methods of a PreparedStatement then you will have the following mapping:

```
<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>⇐ 4000 NVARCHAR</td>
<td>&lt;br/&gt;</td>
</tr>
</tbody>
</table>
```
<table>
<thead>
<tr>
<th>Column Name</th>
<th>Datatype</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>setAsciiStream</td>
<td><code>VARCHAR</code> or <code>TEXT</code></td>
<td>Conversion of value from parameter to database column is not done.</td>
</tr>
<tr>
<td>setClob</td>
<td><code>NVARCHAR</code> or <code>NTEXT</code></td>
<td>Conversion of value from parameter to database column is not done.</td>
</tr>
<tr>
<td>setCharacterStream</td>
<td><code>NVARCHAR</code> or <code>NTEXT</code></td>
<td>Conversion of value from parameter to database column is not done.</td>
</tr>
<tr>
<td>setDate</td>
<td><code>DATETIME</code></td>
<td>Execution will be slow.</td>
</tr>
<tr>
<td>setTime</td>
<td><code>DATETIME</code></td>
<td>Execution will be slow.</td>
</tr>
<tr>
<td>setTimestamp</td>
<td><code>DATETIME</code></td>
<td>Execution will be slow.</td>
</tr>
<tr>
<td>setBytes</td>
<td><code>VARBINARY</code> or <code>IMAGE</code></td>
<td>Conversion of value from parameter to database column is not done.</td>
</tr>
<tr>
<td>setBinaryStream</td>
<td><code>IMAGE</code></td>
<td>Conversion of value from parameter to database column is not done.</td>
</tr>
<tr>
<td>setBlob</td>
<td><code>IMAGE</code></td>
<td>Conversion of value from parameter to database column is not done.</td>
</tr>
</tbody>
</table>

### 7.3 The Performance Problem

If you use a set method that maps to a data type with a higher precedence than the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server cannot use an existing index because it was created for a different data type. The execution will be slow.
A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case the MS SQL Server can detect that it can convert downward the static parameter.

**Solutions:**
1.) Use the correct set method.

2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:
   ... cast(?) as TINYINT

3.) Change the data type of the table.

---

**7.4 Numeric columns and SQL Server 2000 SP4**

BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don’t match exactly the column type. For example Driver sends parameter as "decimal(38,36)" the column type is "numeric (7,0)". It seems that the index for the numeric column won’t used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. &quot;select * from testnumeric where a = CAST(?) AS numeric(7,0)"&quot;

---

**8. Scrolling Cursor Types**

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>A forward only cursor with activated optimization.</td>
</tr>
</tbody>
</table>
### 9. Locking and Concurrency Control

Concurrency type is one of the following concurrency control options.

- **CONCUR_READ_ONLY**: Read-only cursor. You cannot modify rows in the cursor result set.
- **CONCUR_UPDATABLE**: Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.
- **CONCUR_UPDATABLE+1**: Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.
<tr class="row4">
<td class="col0">CONCUR_UPDATABLE+2</td>
<td class="col1">Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all non-text, non-image values.</td>
</tr>
</table></div></div>

<h2 id="failover">10. Failover</h2>

<h3 id="failover-on-getconnection">10.1 Failover on getConnection()</h3>

If you set the property failover=true in the JDBC <abbr title="Uniform Resource Locator">URL</abbr> or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or DataSource that start with &quot;failover&quot; overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

```sql
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500
```

To set more than one failover possibility, use the following syntax:

```sql
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
```

host[N] and port[N] must form pairs, otherwise they will be ignored.

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the <abbr title="Application Programming Interface">API</abbr> documentation of the PoolManager.
10.3 Monitored Failover

With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tryes to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again.


10.3.1 Configuration via Connection properties

There are multiple possibilities about how to configure the Monitored Failover.

It is possible to use the default implementation of the FailoverListener or to use your own implementation. The default FailoverListener is similar to the TimedFailoverListener in the samples package. To every created Connection automatically an instance of the configured FailoverListener will be added.

Set a FailoverListener via Connection properties:

<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
</tbody>
</table>
| failoverListener   | -        | the class name of your own FailoverListener implementation. This class has to implement the FailoverListener interface AND the default public
constructor. This is important to create a new instance of this class via reflection. </td>
</tr>
</table></div>

<p>example URLs:<br/>
jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=100&amp;totalTimeOfAttempts=10<br/>

<h3 id="configuration-in-java">10.3.2 Configuration in Java</h3>

<p>For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:</p>

<ul>
<li class="level1"><div class="li">com.inet.pool.PoolDriver</div></li>
<li class="level1"><div class="li">com.inet.ora.PDataSource</div></li>
<li class="level1"><div class="li">com.inet.tds.PDataSource</div></li>
<li class="level1"><div class="li">com.inet.syb.PDataSource</div></li>
<li class="level1"><div class="li">com.inet.drda.PDataSource</div></li>
</ul>

<p>The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection. example:<br/></p>

<pre class="code java">//receive a Connection
<code class="java">Class.forName("com.inet.pool.PoolDriver";</code>
<code class="java">Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=100&amp;totalTimeOfAttempts=10", "test", "test");</code>
</pre>
The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- **Modify the database**
  
  You can modify the database with the following SQL statement:

  ```sql
  ALTER DATABASE <database name> SET ALLOW_SNAPSHOT_ISOLATION ON
  ```

- **initSQL**

  You can use the initSQL() method to set the transaction isolation level to snapshot Isolation.
If you do not change the level at using of connection then you can set it at creation of the connection with:<br/>
\texttt{initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT}<br/>
</div>
</li>
<li class="level1"><div class="li">Executing a statement</div>
You can also change it with the following Java line:<br/>
\texttt{conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");}<br/>
</div>
</li>
<li class="level1"><div class="li">setTransactionIsolation</div>
Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:<br/>
\texttt{conn.setTransactionIsolation(4096);}<br/>
</div>
</li>
</ol>

<h2 id="debugging">12. Debugging</h2>

<p>If you have problems with the driver then you can enable the logging of the driver. There are different solutions.</p>

<table class="inline">
  <tr class="row0">
    <td class="col0">Solutions</td>
    <td class="col1">examples</td>
    <td class="col2">Comments</td>
  </tr>
  <tr class="row1">
    <td class="col0">DriverManager.setLogStream(PrintStream)</td>
    <td class="col1">DriverManager.setLogStream( System.out );DriverManager.setLogStream( new FileOutputStream("c:\\driver.log");)</td>
    <td class="col2">This method is deprecated but it work with all JDBC drivers.</td>
  </tr>
  <tr class="row2">
    <td class="col0">DriverManager.setPrintWriter(PrintWriter)</td>
    <td class="col1">DriverManager.setPrintWriter( new PrintWriter( System.out ) );</td>
    <td class="col2">work not with JDBC 1.22 driver like i-net UNA</td>
  </tr>
  <tr class="row3">
    <td class="col0">Application Server <abbr title="Graphical User Interface">GUI</abbr></td>
    <td class="col1">WebLogic:</<strong> Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC</strong> JBoss:<strong> You can set it for every DataSource in the config file with:<br/>
    ....</strong></td>
    <td class="col2">true</td>
  </tr>
</table>
myDataSource.setPrintWriter(PrintWriter) 
myDataSource.setPrintWriter(new PrintWriter(System.out))

enable the logging only for connections from this DataSource

JDBC abbr title="Uniform Resource Locator" option "logging=true"
jdbc:inetdae7:localhost?logging=true

Licensing, Pricing, Updates, ... sales at inetsoftware.de
una at inetsoftware.de
sprinta at inetsoftware.de
sprinta at inetsoftware.de
opta at inetsoftware.de
merlia at inetsoftware.de
14. Documentation

You can find more documentation at:

http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm

15. Known problems

- SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int
  - possible workarounds are:
    - set integer values instead of Strings
    - use JDBC URL "jdbc:inetdae7a" - take care about no unicode support
    - set JDBC parameter "tds9=false" - results in unsupport of new sql server 2005 data types

- When using named pipes, setting timeout has no effect.

- When using named pipes, cancel() has no effect.

- The method getTableName() requires a cursor or the "for browse" statement.

- Calling stored procedures with output parameters from type binary or char
The following methods are not supported by this release:

- `PrepareStatement.setArray (int i, Array x)`
- `PrepareStatement.setRef (int i, Ref x)`
- `PrepareStatement.setURL =\"int-i-\"` (Uniform-Resource-Locator-URL-)
- `CallableStatement.getObject (int i, java.util.Map map)`
- `CallableStatement.getRef (int i)`
- `CallableStatement.getArray (int i)`
- `CallableStatement.getURL =\"int-i-\"` (Uniform-Resource-Locator-URL-)
- `All method with a named parameter.`
- `DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)`
- `DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)`
- `ResultSet.getObject (int i, java.util.Map map)`
- `ResultSet.getRef (int i)`
- `ResultSet.getArray (int i)`
- `ResultSet.getURL =\"int-i-\"` (Uniform-Resource-Locator-URL-)
- `ResultSet.updateArray (int i, Array x)`
- `ResultSet.updateRef (int i, Ref x)`
- `All setXXX methods in Blob and Clob.`
If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

- a server-wide certificate on the computer with the MS SQL Server 2000.

**Note:** You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

**WARNING:** After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

- the JSSE (Java Secure Sockel Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
Right-click on the Default Web Site node for the server and select "Properties" from the context menu.

Click on the "Directory Security" tab.

Click on the "Server Certificate" button. A wizard should appear.

Click the "Next" button.

The "Create a new certificate" radio button should be selected. Click the "Next" button.

The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.

Click the "Next" button.

Enter your organization name and unit and click the "Next" button.

In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.

Enter your State and City. Click the "Next" button.

Accept the default file name of c:\certreq.txt and click the "Next" button.

Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.

Run Internet Explorer and enter the URL http://YourCertificateServer/certsrv.

Select "Request a Certificate" and click "Next".

Select "Advanced Request" and click "Next".

Select the PKCS#10 option and click "Next".

Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.

It will tell you the request is pending. Click on the home hyperlink at the top.

Run the Certificate Authority application that is located under Administrative Tools.

Click on Pending Requests. You'll see the request that you just made in there.

Right-click on the request and select All Tasks/Issue.

Now, go back to the computer that runs the SQL Server/IIS where you made the request from. Select the "Check on pending certificate" option and click the "Next" button.

You should see the "Saved-Request Certificate" in there now. Click the "Next" button.

Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
<li class="level1"><div class="li">Right-click on c:\certnew.cer in Explorer and select Install from the context menu.</div></li>

<li class="level1"><div class="li">Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the &quot;computer account&quot;.</div></li>

</ul>

<h3 id="uninstalling-a-certificate">16.4. Uninstalling a Certificate</h3>

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

<ul>
<li class="level1"><div class="li">Start the MMC.EXE and add the Certificates snap-in for the &quot;computer account&quot;.</div></li>

<li class="level1"><div class="li">Select the Certificate in the &quot;Personal&quot; or &quot;Own Certificate&quot; Folder</div></li>

<li class="level1"><div class="li">Drop the Certificate</div></li>

</ul>

<h3 id="forcing-protocol-encryption">16.5. Forcing Protocol Encryption</h3>

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

<h3 id="the-driver-option-securelevel">16.6 The Driver Option secureLevel</h3>

<table>
<thead>
<tr>
<th>secureLevel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>value</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>1 (default)</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

## Changes

### 17. Changes

### 17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)

- For XA support the extended procedures was replaced with a NT-Service.
- The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.

### 17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.
ArrayIndexOutOfBoundsException: 8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).

A bug with wasNull() and getXXX( x, Calendar) was fixed.

A bug with isFirst() in CachedRowSet was fixed.

A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)

A bug with CachedRowSet and setXXX was fixed. It works without clearParameters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.
<ul class="level1">
<li class="li">Method PoolManager.closeConnection(Connection) was added.</li>
<li class="li">Errors in ResultSet.close() are caught now.</li>
<li class="li">A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.</li>
<li class="li">The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.</li>
<li class="li">Connections with a read timeout are removed from the connection pool.</li>
</ul>

<h3 id="changes-in-version-503-merlia-2.03-4-nov-2004">17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)</h3>
<ul class="level3">
<li class="li">The return value of supportsStatementPooling() was changed.</li>
<li class="li">A bug with a DataSource not from the JNDI and equals() was fixed.</li>
<li class="li">The method getParameterMetaData() was implemented.</li>
<li class="li">The methods setImpltran() and getImpltran() were added.</li>
<li class="li">Timestamp objects can be created (read) faster with JDK 1.4.x now.</li>
<li class="li">A NullPointerException after deserialize of a CachedRowSet was fixed.</li>
<li class="li">The method PreparedStatement.getMetaData() work also with GROUP BY now.</li>
<li class="li">Datetime formats with short month and days like '1999-5-5' are supported now.</li>
<li class="li">A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.</li>
<li class="li">The AsciiStream always sends Ascii data (also in unicode mode).</li>
<li class="li">The error 'Unknown parameter datatype:-12347' with setUnicodeStream and server site PreparedStatement was fixed.</li>
<li class="li">The call setObject( x, value, Types.BIT ) accepts numeric Strings now.</li>
</ul>
The detecting of the default codepage of the SQL Server 2000 was changed.

The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateDateTimeFunctions() and getNumericFunctions() were refactored.

The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.

The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter( x, Types.BOOLEAN) was added.

The synchronized from Connection.close() was removed.

The truncate of SP output parameter without input value on length 255 was fixed.

Support for SSL was added.

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)

17.7. Changes in Version 6.01  (1. Apr 2004)

- A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.
- A NullPointerException with DataSources was fixed. The bug exists since 6.00.
- The methods setSecureLevel() and getSecureLevel() were added.
- The regression that connect to MS SQL Server 6.5 fails was fixed.
- The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.
- A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.
- The ClassNotFoundExption withh SSL on the console with JDK 1.3 was removed.
- The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.
- Fixes in isAfterLast and isBeforeFirst for empty Resultsets
- A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since 5.03.01.
- A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.


- Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.
- A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.
The wrong message "Statement.cancel: Statement is currently not running" on running Statements was removed.
The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.
The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (FTP), 80 (HTTP) or 1521 (Oracle).
The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.
Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.
The methods setAppname() and getAppname() were added to the DataSources.
The methods setFulltran() and getFulltran() were added to the DataSources.
Support for the new protocol of SQLServer 2005 was added.
Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.
Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.
The property lastUpdateCount was added.
The sql state "100029" was changed to "07001". It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.
A bug with Statement.cancel() and SSL and forceEncryption was fixed.
A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.
<li class="level1"><div class="li"> The methods of DatabaseMetadata with the catalog parameter now return the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.</div></li>
<li class="level1"><div class="li"> Some changes on the time behavior after a call of cancel() or if a query timeout occurs.</div></li>
<li class="level1"><div class="li"> The timing for resolving the instance name was changed.</div></li>
<li class="level1"><div class="li"> The property WSID was added.</div></li>
<li class="level1"><div class="li"> The restoring of the connection after a query timeout is faster now if the MS SQL Server does not need to roll back.</div></li>
<li class="level1"><div class="li"> Support for the data type BIGINT in the method updateObject(i,x) was added.</div></li>
<li class="level1"><div class="li"> The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.</div></li>
<li class="level1"><div class="li"> If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.</div></li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.</div></li>
<li class="level1"><div class="li"> An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.</div></li>
</ul>

<ul>
<li class="level1"><div class="li"> Connection failover was expanded to set more than one failoverhost.</div></li>
<li class="level1"><div class="li"> Added setLogging(String) and setProperty(String) to class TdsDataSource.</div></li>
<li class="level1"><div class="li"> The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.</div></li>
</ul>

<ul>
<li> Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.</li>
<li> The bug in DataSource overwriting the original host/port information in failover case has been fixed.</li>
<li> The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.</li>
<li> A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.</li>
<li> CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).</li>
<li> Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.</li>
<li> Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message &quot;Invalid object name&quot; had been issued by mistake.</li>
<li> The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.</li>
<li> Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.</li>
<li> Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433.</li>
<li> Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.</li>
<li> Method PoolManager.dispose() was added.</li>
<li> The exception &quot;Unknown TDS packet type: 18&quot; will not be thrown anymore.</li>
<li> Performance increasing: executing a prepared statement runs faster at the first execute call.</li>
<li> &quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.</li>
</ul>
The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int, int).

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

Reading type money and type smallmoney from sql_variant column was fixed.

New driver property "dstsave".

Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)

Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.

Reading values from MONEY columns with getDouble() has been fixed to return correct values.

Since version 6.05 CachedRowSet.populate(ResultSet) didn’t worked. This is fixed now.

There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.

An excrecent stacktrace log output was removed. (SocketException)

TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.

Since version 6.05: If a statement was already prepared, executing it as batch failed.

SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().
Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.

PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[], String and InputStream values in addition.

since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetd肺和inetd肺a.

since 6.04.12, prepare end execute statements didn’t worked with SQL Server 7.

Multiple protocol changes to adapt driver to final SQL Sever 2005. Fix the bug with transaction

Adapted meta data requests to changes made in final SQL Server 2005.

In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.

When the PreparedStatement contained a character sequence in SQL like `&#039;&#8211;&#039;`, the parameters following were ignored.

Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set "&quot;tds9=false&quot; in JDBC URL)

The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.

If a statement requested a massive amount of columns, sometimes the Exception "Unknown data type:"... would occur. This is fixed now.

Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.

Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.

The method PoolManager.getFreeConnectionCount() now again returns the
value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.

Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn't regard the max data types of SQL Server 2005. An "unknown type" Exception was thrown before.


Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error "column type XX is unknown".

An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeQuery() was fixed. The exception could occur with an additional PreparedStatement pool.

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.

If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.
A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method PoolManager.getConnection() is follow more the FIFO concept.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 MB are send as bulk. Now you can save date until a size of Interger.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.
The warnings of `getTransactionIsolation()` are ignored now.

The bulk transfer limit was reduced from 200 MB to 100 MB.

A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of `dstSave` was changed to true.

Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.

Transaction isolation snapshot was added.

The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.

`ResultSet.getAsciiStream()` caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with `setMaxIdleTime()` was fixed. After the timeout not all idle connections were closed.

`PreparedStatement.setBigDecimal()` has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.

The property `typeMapping` was added.

JDBC4 interface was added for i-net MERLIA.

A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.
A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.

The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.

Some protocol violations with the data type XML were fixed.

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Integrated Windows Authentication for TCP/IP connections was added.

An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.

The methods getFunctions and getFunctionColumns are now implemented.

The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.


Property statusRequest added.

An encoding bug with the XML data type of the SQL Server 2005 was fixed.

The following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran,.impltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].

- The error "The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly." with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.
- The SQL query "SELECT {ts '2007-10-19 10:20:30.000'}" returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.
- A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator."
- Instances of PDataSource could not have been serialized.
- The property <em>hostProcess</em> is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table <em>sysprocesses</em>. It is also used for JDBC logging.
- With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000 [xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".
- A NullPointerException with deserialize of the CachedRowSet was fixed.
- The methods deleteRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000 [xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".
- Fix a bug with Windows NT authentication and SQL Server 2005.


- A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.
The error message "Could not find prepared statement with handle 0." was fixed.

The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.

The method DataSource.setUrl was added.

The call ResultSet.findColumn( "" ) did not find empty columns.

A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error "Error converting data type decimal to decimal."

Some error handling was added for connecting to prevent problems in stress conditions.

The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.

A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.

There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.

A very rare exception "You are tried to connect to SQL Server 6.5 with the sql7 mode." with SQL Server 2005 when calling getConnection().

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The error message "Fatal error on prepare. Connection will be closed." which occurred with a very fast cancel() was fixed.

The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.

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Classes DTDataSource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.

- Empty strings in CacheRowSet changed to null values after serialization.
- A very rare "ArrayIndexOutOfBoundsException: Array index out of range: 0" on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary key.
- The inactive timeout of the PoolManager is now reset with every method call.
- The property fastbatch was added.
- A possible hanging in socket.skip() after a timeout or cancel was fixed.
- An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.
- Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.
- The error "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.
- Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.


- Fixed some bugs in ParameterMetaData.
- Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.
- A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.
Fixed some bugs in setClientInfo(String, String) and optimized performance.

Removed the finalize() method from the Connection object.

Fixed a hanging of the finalize thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().

Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.

A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.

An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.

With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.

A memory leak in the DTCProxy was fixed.

Long-running XA transactions were rolled back after 10 minutes under very rare conditions.

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Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.

Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.

Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.

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Added property packetSize and changed the default from server default to 8000.

Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.

Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.

The method getClob() returned wrong data for data type VARCHAR(MAX).

Changed the default value of impltran for PDataSource to false.

A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in <abbr title="American Standard Code for Information Interchange">ASCII</abbr> mode (sub protocol inetdae6 and inetdae7a).

A regression with ParameterMetaData note setting parameters was fixed.

An ArrayIndexOutOfBoundsException on ResulSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.

A failing windows authentication was fixed for the case that user name, domain
name and host name together were very long.

</li>
</ul>
</div>

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Does not use the package sun.misc.* on Java 6 and newer.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached</div>
</li>
<li class="level1"><div class="li"> Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</div>
</li>
<li class="level1"><div class="li"> Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added support for VNN (virtual network names) together with instance names.</div>
</li>
</ul>
</div>
Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.

No longer write the password to the driver log.

Add the interface NtlmHandshake to support an external NTLM login source.

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AdventNet SNMPV3 Release 2.2.1

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lib/jetty-ext/jsp-api.jar
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lib/jetty-ext/jasper-runtime.jar
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ASF

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src/plugin/lib-jakarta-poi/lib/poi-scratchpad-3.5-beta4-20081128.jar

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src/plugin/lib-jakarta-poi/lib/poi-3.5-beta4-20081128.jar

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Anders Moeller
amoeller@brics.dk

src/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/clustering-carrot2/lib/violinstrings-1.0.2.jar

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src/plugin/protocol-ftp/lib/commons-net-1.2.0-dev.jar
ASF

src/plugin/ontology/lib/jena-2.1.jar

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*/

src/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $
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*/

src/plugin/lib-xml/lib/saxpath.jar

/*--

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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*/

c src/plugin/lib-xml/lib/xercesImpl.jar

ASF
XOM is a dual streaming/tree-based API for processing XML with Java.

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/*

Derby - Class org.apache.derbyTesting.functionTests.tests.lang.GrantRevokeDDLTest

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*/

package org.apache.derbyTesting.functionTests.tests.lang;

/**
 * <p>
 * Helper class for testing sql authorization.
 * </p>
 */

class Permission
{
    public final String text;
    public final String sqlStateWhenMissing;

    public Permission( String text, String sqlStateWhenMissing )
    {
        this.text = text;
        this.sqlStateWhenMissing = sqlStateWhenMissing;
    }
}
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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5.130 derbyshared 10.15.1.3

5.131 derbytools 10.10.2.0

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AppleJavaExtensions
v 1.2


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5.151 geronimo-j2ee-management_1.1_spec

1.0.1

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5.157 gmbal-api-only 3.1.0-b001

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API specification for <a href="http://www.jivesoftware.org/smack">Smack</a>, an Open Source XMPP client library.

The `{ @link org.jivesoftware.smack.XMPPConnection }` class is the main entry point for the API.

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5.175 grpc-api 1.26.0

5.176 grpc-context 1.19.0

5.177 grpc-protobuf-lite 1.10.1

5.178 gson 2.8.5

5.179 guava 27.1-jre

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5.180 guava-jdk5 17.0

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5.181 h2 1.4.196

5.182 ha-api 3.1.12

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5.187 hawtbuf 1.9

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 */

package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";

    public static final String LISTENER_INSTANCE = "instance";
    public static final String LISTENER_MEMBER = "member";
    public static final String LISTENER_MIGRATION = "migration";

    private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new CountDownLatchPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SemaphorePermission(name, actions);
        }
    });
}
return new SemaphorePermission(name, actions);
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
public Permission create(String name, String... actions) {
    return new CachePermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
}
private ActionConstants() {
}
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }
}
return permissionFactory.create(name, actions);
}
}
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*/
package com.hazelcast.security.permission;
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
import java.security.Permission;
/**
* TODO: Object Permission
*/
public abstract class InstancePermission extends ClusterPermission {
protected static final int NONE = 0;
protected static final int CREATE = 1;
protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);

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```java
final StringBuilder s = new StringBuilder();
for (String action : actions) {
    s.append(action).append(" ");
}
this.actions = s.toString();

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }

    if (obj instanceof InstancePermission) {
        InstancePermission that = (InstancePermission) obj;
        return (this.accessMask & that.accessMask) == that.accessMask;
    }
    return false;
}
```
if (getClass() != obj.getClass()) {
    return false;
}
InstancePermission other = (InstancePermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
if (!mask.equals(other.mask)) {
    return false;
}
return true;
}

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 */

package com.hazelcast.security.permission;

class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

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 *
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }
        };
    }

    @Override
    public int hashCode() {
        return 37;
    }
}
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }
}

@override
public String toString() {
    return "<deny all permissions>";
}

@override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}

*/

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* /

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }
}
@Override
public PermissionCollection newPermissionCollection() {
    return new AllPermissionsCollection();
}

@Override
public String toString() {
    return "<allow all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof AllPermissions;
}

@Override
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            boolean more = all;

            @Override
            public boolean more() {
                return more;
            }

            @Override
            public Permission next() {
                return ALL_PERMISSIONS;
            }
        };
    }
}
@Override
public boolean hasMoreElements() {
    return more;
}

@Override
public Permission nextElement() {
    more = false;
    return ALL_PERMISSIONS;
}
};

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}
package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
                mask |= ACQUIRE;
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
                mask |= RELEASE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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     */
}
package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }

        return mask;
    }

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    */
package com.hazelcast.security.permission;

public class ScheduledExecutorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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*/

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }

        return mask;
    }
}
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {
    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass())) || (permission instanceof ClusterPermission);
        this.perms.add(shouldAdd ? permission : null);
    }

    // Other methods...
}
if (shouldAdd && !implies(permission)) {
    perms.add(permission);
}

public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}
@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }
}
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                mask |= ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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     */

class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                mask |= ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }

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     */
return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        return mask;
    }
}

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 * limitations under the License.
 */
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}

private static final int ALL = CREATE | DESTROY;

public MapReducePermission(String name, String... actions) {
    super(name, actions);
}

@Override

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     * limitations under the License.
     */

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}
*/

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*/

package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {


if (ActionConstants.ACTION_ALL.equals(action)) {
    return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;
*/

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

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 * limitations under the License.
 */
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        if (getName() == null) {
            if (obj.getClass().getName() == null) {
                return true;
            }
            return getName().equals(((ClusterPermission) obj).getName());
        }
        return getClass().getName().equals(((ClusterPermission) obj).getClass().getName());
    }
}

@Retention(RetentionPolicy.RUNTIME)
@Target({ElementType.METHOD, ElementType.TYPE})
public @interface ClusterPermissionPermission {
    String[] value();
}
ClusterPermission other = (ClusterPermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
return true;
}

package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        return mask;
    }

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     */
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;
}

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        return mask;
    }

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    * limitations under the License.
    */
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
    mask |= PUBLISH;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}

return mask;

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 */

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                mask |= ALL;
                break;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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 */
return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}
}
return mask;
}
}

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 */

/**
 * Contains all the security permissions
 */
package com.hazelcast.security.permission;

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 */
package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        }
    }
}
else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}
else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
}
else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
}
else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;

for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_ADD.equals(action)) {
        mask |= ADD;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
}

return mask;
}

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

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    * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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    * limitations under the License.
    */
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}

5.191 hazelcast-all 3.9.1
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 */

package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;
public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";
    public static final String ACTION_USER_CODE_DEPLOY = "deploy";

    public static final String LISTENER_INSTANCE = "instance";
    public static final String LISTENER_MEMBER = "member";
    public static final String LISTENER_MIGRATION = "migration";
}
private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String, PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new CountDownLatchPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SemaphorePermission(name, actions);
        }
    });
}
public Permission create(String name, String... actions) {
    return new SemaphorePermission(name, actions);
}

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {

@Override
public Permission create(String name, String... actions) {
    return new CachePermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(UserCodeDeploymentService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new UserCodeDeploymentPermission(actions);
    }
});
}

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

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 */

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
    WildcardConfigPatternMatcher();

    protected final int mask;
    protected final String actions;
public InstancePermission(String name, String... actions) {
    super(name);
    if (name == null || name.equals(name)) {
        throw new IllegalArgumentException("Permission name is mandatory!");
    }
    mask = initMask(actions);

    final StringBuilder s = new StringBuilder();
    for (String action : actions) {
        s.append(action).append(" ");
    }
    this.actions = s.toString();
}

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}
@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}

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 */

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }
        }
    }

    @Override
    public Enumeration<Permission> elements(PermissionCollection elt) {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }
        }
    }

    public void addAll(PermissionCollection elt) {
    }

    public void clear() {
    }

    public int size() {
        return 0;
    }

    public boolean isEmpty() {
        return true;
    }

    public boolean contains(Permission p) {
        return false;
    }

    @Override
    public String toString() {
        return "DenyAllPermissionCollection";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof DenyAllPermissionCollection;
    }

    @Override
    public int hashCode() {
        return this.getClass().getName().hashCode();
    }
}

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 */
public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>" refrain);  
    }

    @Override
    public int hashCode() {
        return 37;
    }

    @Override
    public String toString() {
        return "<deny all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof DenyAllPermissionCollection;
    }

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     */

    package com.hazelcast.security.permission;

    import java.security.Permission;
    import java.security.PermissionCollection;
    import java.util.Enumeration;

    public final class AllPermissions extends ClusterPermission {

        public AllPermissions() {
            super("<all permissions>" refrain);  
        }

        @Override

public boolean implies(Permission permission) {
    return true;
}

@Override
public String getActions() {
    return "<all actions>";
}

@Override
public PermissionCollection newPermissionCollection() {
    return new AllPermissionsCollection();
}

@Override
public String toString() {
    return "<allow all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof AllPermissions;
}

@Override
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public static final class AllPermissions extends Permission {
        private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();

        public AllPermissions() {
        }

        public AllPermissions(String name) {
            super(name);
        }

        @Override
        public String toString() {
            return name;
        }
    }
}
public boolean implies(Permission permission) {
    return all;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        @Override
        public boolean hasMoreElements() {
            return more;
        }

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}
package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;
    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
            mask |= ACQUIRE;
        } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
            mask |= RELEASE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;

public class UserCodeDeploymentPermission extends InstancePermission {

    private static final int DEPLOY = 4;
    private static final int ALL = DEPLOY;

    public UserCodeDeploymentPermission(String... actions) {
        super(UserCodeDeploymentService.SERVICE_NAME, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_USER_CODE_DEPLOY.equals(action)) {
                mask |= DEPLOY;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

public class ScheduledExecutorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {

}
if (isReadOnly()) {
    throw new SecurityException("ClusterPermissionCollection is read-only!");
}
boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
|| (permission instanceof ClusterPermission);

if (shouldAdd && !implies(permission)) {
    perms.add(permission);
}
}

public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
}
@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final  int LOCK = 4;
    private static final  int READ = 8;
    private static final  int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
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 */
package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {
    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        }
    }
    return mask;
}

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

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    * limitations under the License.
    */
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
    return mask;
}

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    // Other code...
*/
public MapReducePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

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 */

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }
    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
    return mask;
}

package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

/package com.hazelcast.security.permission;
import java.security.Permission;

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 */

public class ConfigPermission extends ClusterPermission {
    private static final String CONFIG_PERMISSION_NAME = "<config>";
    private static final String CONFIG_PERMISSION_ACTIONS = "config";

    public ConfigPermission() {
        super(CONFIG_PERMISSION_NAME);
    }
```java
@Override
public boolean implies(Permission permission) {
    return getClass() == permission.getClass();
}

@Override
public String getActions() {
    return CONFIG_PERMISSION_ACTIONS;
}

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }

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     */

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }

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```
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        if (obj == null) {
            return false;
        }
        if (getName() == null ||
            getClass() != obj.getClass()) {
            return false;
        }
        return true;
    }
}
ClusterPermission other = (ClusterPermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
return true;
}

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*/

package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {

    }
mask |= CREATE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) { /*
                return ALL;
            }*/
        }
        return mask;
    }

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    */

    package com.hazelcast.security.permission;
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
    mask |= PUBLISH;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
}
} /*
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*/
package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
mask |= DESTROY;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
}
}
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 */

class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }
    return mask;
}
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}

return mask;
}
package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
        }
package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            switch (ActionConstants.getActionName(action)) {
                case ActionConstants.ACTION_ADD:
                    mask |= ADD;
                    break;
                case ActionConstants.ACTION_READ:
                    mask |= READ;
                    break;
                case ActionConstants.ACTION_LISTEN:
                    mask |= LISTEN;
                    break;
                case ActionConstants.ACTION_LOCK:
                    mask |= LOCK;
                    break;
                case ActionConstants.ACTION_INDEX:
                    mask |= INDEX;
                    break;
                case ActionConstants.ACTION_INTERCEPT:
                    mask |= INTERCEPT;
                    break;
            }
        }
        return mask;
    }

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     */
if (ActionConstants.ACTION_ALL.equals(action)) {
    return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_ADD.equals(action)) {
    mask |= ADD;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
}
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 */
package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {
    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }

    return mask;
}

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5.196 hibernate-entitymanager 5.3.7.Final

5.197 hibernate-jpa-2.0-api 1.0.1.Final

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5.198 hibernate-jpa-2.1-api 1.0.2

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5.200 hibernate-validator 5.2.2.Final

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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JUnit test library (junit-3.8.1.jar)

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5.211 htmlparser 2.1

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The actual DOM Java Language Binding classes in xml-commons came from:
    http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
    http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
    http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
    http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
    http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
    http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
    http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
    http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
    http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
    http://www.w3.org/Style/CSS/SAC/
    http://www.w3.org/2002/06/sacjava-1.3.zip
The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
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The original versions are tagged 'SAX-2_0-r2-prerelease'

5.215 htmlunit-csparser 1.2.0

5.216 http2-client 10.0.0.alpha1

5.216.1 Available under license :

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace MODIFY OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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5.217 http2-common 9.4.11.v20180605

5.218 http2-hpack 9.4.11.v20180605

5.219 http2-http-client-transport 10.0.0-alpha0

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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*/

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public class License {
    private String name;
    private String url;

    public License(String name, String url) {
        this.name = name;
        this.url = url;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }
}

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JSR-330

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the \textit{bold} font" has range (4, 8) replaced with "\textit{strong}", then it becomes "the \textit{strong} font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement Replaceable in their text representation class.

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 */

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
  public Permission(String name) {
  }

  public final String getName() { return null; }

  public void checkGuard(Object obj) throws SecurityException {
  }

  public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
  }

  public abstract String getActions();

  public abstract boolean implies(Permission permission);
}

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C. Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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5.237 jackson-coreutils 1.8

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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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### Jackson Dataformat Cbor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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5.244 jackson-mapper-asl 1.9.13

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5.245 jackson-module-jaxb-annotations 2.9.9

5.246 jackson-xc 1.9.13
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5.247 jai_core 1.1.3 1.1.3

5.248 jakarta-oro 2.0.0
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5.260 jandex 2.0.3.Final

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package org.fusesource.jansi;

import org.fusesource.jansi.internal.Kernel32;

import static org.fusesource.jansi.internal.CLibrary.STDERR_FILENO;
import static org.fusesource.jansi.internal.CLibrary.STDOUT_FILENO;
import static org.fusesource.jansi.internal.CLibrary.isatty;

import java.io.FilterOutputStream;
import java.io.IOException;
import java.io.OutputStream;
import java.io.PrintStream;
import java.io.UnsupportedEncodingException;
import java.nio.charset.Charset;
import java.util.Locale;

/**
 * Provides consistent access to an ANSI aware console PrintStream.
 *
 * @author <a href="http://hiramchirino.com">Hiram Chirino</a>
 * @since 1.0
 */

public class AnsiConsole {

    public static final PrintStream system_out = System.out;
    public static final PrintStream out;
    public static final PrintStream system_err = System.err;
    public static final PrintStream err;

    private static final boolean IS_WINDOWS = System.getProperty("os.name").toLowerCase(Locale.ENGLISH).contains("win");
    private static final boolean IS_CYGWIN = IS_WINDOWS && System.getenv("PWD") != null && System.getenv("PWD").startsWith("/") && !"cygwin".equals(System.getenv("TERM"));
    private static final boolean IS_MINGW = IS_WINDOWS && System.getenv("MSYSTEM") != null && System.getenv("MSYSTEM").startsWith("MINGW");

    static {
        String charset = Charset.defaultCharset().name();
        /*
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         * limitations under the License.
         */
    }

}
if (IS_WINDOWS && !IS_CYGWIN && !IS_MINGW) {
    int codepage = Kernel32.GetConsoleOutputCP();
    //http://docs.oracle.com/javase/6/docs/technotes/guides/intl/encoding.doc.html
    if (Charset.isSupported("ms" + codepage)) {
        charset = "ms" + codepage;
    } else if (Charset.isSupported("cp" + codepage)) {
        charset = "cp" + codepage;
    }
}

try {
    out = new PrintStream(wrapOutputStream(system_out), false, charset);
    err = new PrintStream(wrapErrorOutputStream(system_err), false, charset);
} catch (UnsupportedEncodingException e) {
    throw new RuntimeException(e);
}

private static int installed;

private AnsiConsole() {
}

public static OutputStream wrapOutputStream(final OutputStream stream) {
    try {
        return wrapOutputStream(stream, STDOUT_FILENO);
    } catch (Throwable ignore) {
        return wrapOutputStream(stream, 1);
    }
}

public static OutputStream wrapErrorOutputStream(final OutputStream stream) {
    try {
        return wrapOutputStream(stream, STDERR_FILENO);
    } catch (Throwable ignore) {
        return wrapOutputStream(stream, 2);
    }
}

public static OutputStream wrapOutputStream(final OutputStream stream, int fileno) {

    // If the jansi.passthrough property is set, then don't interpret
    // any of the ansi sequences.
    if (Boolean.getBoolean("jansi.passthrough")) {
        return stream;
    }

    // If the jansi.strip property is set, then we just strip the
    // the ansi escapes.

if (Boolean.getBoolean("jansi.strip")) {
    return new AnsiOutputStream(stream);
}

if (IS_WINDOWS && !IS_CYGWIN && !IS_MINGW) {

    // On windows we know the console does not interpret ANSI codes..
    try {
        return new WindowsAnsiOutputStream(stream);
    } catch (Throwable ignore) {
        // this happens when JNA is not in the path.. or
        // this happens when the stdout is being redirected to a file.
    }

    // Use the ANSIOutputStream to strip out the ANSI escape sequences.
    return new AnsiOutputStream(stream);
}

// We must be on some Unix variant, including Cygwin or MSYS(2) on Windows...
try {
    // If the jansi.force property is set, then we force to output
    // the ansi escapes for piping it into ansi color aware commands (e.g. less -r)
    boolean forceColored = Boolean.getBoolean("jansi.force");
    // If we can detect that stdout is not a tty.. then setup
    // to strip the ANSI sequences..
    if (!forceColored && isatty(fileno) == 0) {
        return new AnsiOutputStream(stream);
    }
} catch (Throwable ignore) {
    // These errors happen if the JNI lib is not available for your platform.
    // But since we are on ANSI friendly platform, assume the user is on the console.
}

// By default we assume your Unix tty can handle ANSI codes.
// Just wrap it up so that when we get closed, we reset the
// attributes.
return new FilterOutputStream(stream) {
    @Override
    public void close() throws IOException {
        write(AnsiOutputStream.RESET_CODE);
        flush();
        super.close();
    }
};

/**
 * If the standard out natively supports ANSI escape codes, then this just
* returns System.out, otherwise it will provide an ANSI aware PrintStream
* which strips out the ANSI escape sequences or which implement the escape
* sequences.
*
* @return a PrintStream which is ANSI aware.
*/
public static PrintStream out() {
    return out;
}

/**
 * If the standard out natively supports ANSI escape codes, then this just
 * returns System.err, otherwise it will provide an ANSI aware PrintStream
 * which strips out the ANSI escape sequences or which implement the escape
 * sequences.
 *
 * @return a PrintStream which is ANSI aware.
 */
public static PrintStream err() {
    return err;
}

/**
 * Install Console.out to System.out.
 */
synchronized static public void systemInstall() {
    installed++;
    if (installed == 1) {
        System.setOut(out);
        System.setErr(err);
    }
}

/**
 * undo a previous {@link #systemInstall()}. If {@link #systemInstall()} was called
 * multiple times, it {@link #systemUninstall()} must call the same number of times before
 * it is actually uninstalled.
 */
synchronized public static void systemUninstall() {
    installed--;
    if (installed == 0) {
        System.setOut(system_out);
        System.setErr(system_err);
    }
}
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1.1

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5.273 javax-activation 1.1.0 :201108011116

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 */

package javax.activation;

import java.util.Map;
import java.util.WeakHashMap;

/**
 * The CommandMap class provides an interface to a registry of
 * command objects available in the system.
 * Developers are expected to either use the CommandMap
 * implementation included with this package (MailcapCommandMap) or
 * develop their own. Note that some of the methods in this class are
 * abstract.
 */
public abstract class CommandMap {
    private static CommandMap defaultCommandMap = null;
    private static Map<ClassLoader,CommandMap> map =
    new WeakHashMap<ClassLoader,CommandMap>();

    /**
     * Get the default CommandMap.
     *
     * <ul>
     * <li> In cases where a CommandMap instance has been previously set
     *      to some value (via <i>setDefaultCommandMap</i>)
     *      return the CommandMap.
     * <li>
     *      In cases where no CommandMap has been set, the CommandMap
     *      creates an instance of <code>MailcapCommandMap</code> and
     *      set that to the default, returning its value.
     * <li>
     * </ul>
     *
     * @return the CommandMap
     */
    public static synchronized CommandMap getDefaultCommandMap() {
        if (defaultCommandMap != null)
            return defaultCommandMap;
        // fetch per-thread-context-class-loader default
        ClassLoader tccl = SecuritySupport.getContextClassLoader();
        CommandMap def = map.get(tccl);
        if (def == null) {
            def = new MailcapCommandMap();
            map.put(tccl, def);
        }
        return def;
    }
* Set the default CommandMap. Reset the CommandMap to the default by
* calling this method with <code>null</code>.
*
* @param commandMap The new default CommandMap.
* @exception SecurityException if the caller doesn't have permission
* to change the default
*/

public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
  SecurityManager security = System.getSecurityManager();
  if (security != null) {
    try {
      // if it's ok with the SecurityManager, it's ok with me...
      security.checkSetFactory();
      } catch (SecurityException ex) {
        // otherwise, we also allow it if this code and the
        // factory come from the same (non-system) class loader (e.g.,
        // the JAF classes were loaded with the applet classes).
        ClassLoader cl = CommandMap.class.getClassLoader();
        if (cl == null || cl.getParent() == null ||
            cl != commandMap.getClass().getClassLoader()) {
          throw ex;
        }
      }
    }

    // remove any per-thread-context-class-loader CommandMap
    map.remove(SecuritySupport.getContextClassLoader());
    defaultCommandMap = commandMap;
  }

  /**
   * Get the preferred command list from a MIME Type. The actual semantics
   * are determined by the implementation of the CommandMap.
   *
   * @param mimeType the MIME type
   * @return the CommandInfo classes that represent the command Beans.
   */
  abstract public  CommandInfo[] getPreferredCommands(String mimeType);

  /**
   * Get the preferred command list from a MIME Type. The actual semantics
   * are determined by the implementation of the CommandMap. <p>
   * The <code>DataSource</code> provides extra information, such as
   * the file name, that a CommandMap implementation may use to further
   * refine the list of commands that are returned. The implementation
   * in this class simply calls the <code>getPreferredCommands</code>
   * method that ignores this argument.
   * 
   */

* @param mimeType the MIME type
* @param ds a DataSource for the data
* @return the CommandInfo classes that represent the command Beans.
* @since JAF 1.1
*
public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
    return getPreferredCommands(mimeType);
}

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo objects representing all the commands.
 * @since JAF 1.1
 */
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getAllCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo objects representing all the commands.
 * @since JAF 1.1
 */
public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
    return getAllCommands(mimeType);
}

/**
 * Get the default command corresponding to the MIME type.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @return the CommandInfo corresponding to the command.
 */
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
 * Get the default command corresponding to the MIME type. <p>
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the command that is chosen. The implementation
* in this class simply calls the <code>getCommand</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param cmdName the command name
* @param ds DataSource for the data
* @return the CommandInfo corresponding to the command.
* @since JAF 1.1
*/
public CommandInfo getCommand(String mimeType, String cmdName,
DataSource ds) {
return getCommand(mimeType, cmdName);
}

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap.
*
* @param mimeType the MIME type
* @return the DataContentHandler for the MIME type
*/
abstract public DataContentHandler createDataContentHandler(String mimeType);

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap. <p>
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the choice of DataContentHandler. The implementation
* in this class simply calls the <code>createDataContentHandler</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param ds DataSource for the data
* @return the DataContentHandler for the MIME type
* @since JAF 1.1
*/
public DataContentHandler createDataContentHandler(String mimeType,
DataSource ds) {
return createDataContentHandler(mimeType);
/**
 * Get all the MIME types known to this command map.
 * If the command map doesn't support this operation,
 * null is returned.
 * 
 * @return		array of MIME types as strings, or null if not supported
 * @since	JAF 1.1
 */

public String[] getMimeTypes() {
    return null;
}

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5.293 javax.xml.soap API_FactoryFinder.java

1.3.7

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</thirdparty-licenses>

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JUnit test library (junit-3.8.1.jar)

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table of data to be supplied by an application program that uses

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the facility, other than as an argument passed when the facility

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is invoked, then you must make a good faith effort to ensure that,

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in the event an application does not supply such function or

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table, the facility still operates, and performs whatever part of

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its purpose remains meaningful.

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(For example, a function in a library to compute square roots has

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a purpose that is entirely well-defined independent of the

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application. Therefore, Subsection 2d requires that any

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application-supplied function or table used by this function must

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be optional: if the application does not supply it, the square
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, 1 April 1990
Ty Coon, President of Vice

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******************************************************************************
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freemarker/ext/jsp/web-app_2_3.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
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--------------------

FreeMarker 1.x was released under the LGPL license. Later, by community consensus, we have switched over to a BSD-style license. As of FreeMarker 2.2pre1, the original author, Benjamin Geer, has relinquished the copyright in behalf of Visigoth Software Society.

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1. WORKING WITH MAVEN
=====================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you
might see an exception like this:
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...
This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).
Something similar to the following should be added:

<settings>
...
<servers>
...
<server>
  <id>jboss-developer</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
<settings>
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
============

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------
* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and
Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run

-----------------------------------

The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, like so:

$ mvn surefire-report:report-only

2.3. Executing different groups

-----------------------------------

A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test

-----------------------------------

A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxBTest test

2.5. Executing all tests in a given package

-----------------------------------

This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test

2.6. Skipping the test run

-----------------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run. To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE
-----------------------------------------------
Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.
2.9. Integration with CruiseControl / Hudson
--------------------------------------------

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

1. WORKING WITH MAVEN
=======================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-------------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries
* mvn compile: Compiles java source code.
* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".
* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/
* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.
* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

### 1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...

  <servers>
    ...

    <server>
      <id>jboss-developer</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server>
      <id>jboss-snapshots</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server>
      <id>jboss-releases</id>
    </server>

  </servers>

  ...

<settings>
```
Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
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Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

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Alternatively, you can execute the tests AND generate a report with:

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If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, i.e., so:

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A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

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2.4. Executing a single test

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This can be achieved by passing in the package name with a wildcard to the test parameter.

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It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.

To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install
Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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.

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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* Documentation Location
* Third-Party Component Notices

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e) Verify that the user has already received a copy of these

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For an executable, the required form of the "work that uses the

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reproducing the executable from it. However, as a special exception,

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the materials to be distributed need not include anything that is

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components (compiler, kernel, and so on) of the operating system on

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which the executable runs, unless that component itself accompanies

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a) Accompany the combined library with a copy of the same work

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based on the Library, uncombined with any other library

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Sections above.

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b) Give prominent notice with the combined library of the fact

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Sentry Spelling Checker Engine</h2></td>
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<HR ALIGN=CENTER WIDTH="100%" SIZE="2"> 
</p>
<DIV ALIGN=LEFT>
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7693
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7702
Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

Version: 8.06
Last Modified: 15. Apr 2015

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1. Installation

1.1 Using the Driver in a Java Application

The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

1.2 Using the Driver in an Applet

Add the driver jar file to the archive attribute of the applet tag, e.g.:

```
&lt;APPLET CODE="..." Codebase="..." ARCHIVE="Merlia.jar" WIDTH="100%" HEIGHT="100%"&gt;
...
&lt;/APPLET&gt;
```

or extract the jar in the directory of the applet.
# 2. Getting Started

## 2.1 SQL Server, Java and JDBC Versions

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA</td>
<td>1.1</td>
<td>1.22</td>
</tr>
<tr>
<td>SPRINTA</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>OPTA</td>
<td>1.2</td>
<td>2.0 + Optional Package</td>
</tr>
<tr>
<td>MERLIA</td>
<td>1.4&lt;br/&gt;3.0&lt;br/&gt;4.0 (with Java 6.0)</td>
<td></td>
</tr>
</tbody>
</table>

All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2000
- Microsoft SQL Server 7.0
- Microsoft SQL Server 6.5
with all Service Packs (32 bit / 64 bit)

<table>
<thead>
<tr>
<th>Implemented Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA &amp; SPRINTA &amp; OPTA &amp; MERLIA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API</td>
<td>1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
A more complete list can be found at:

http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:
Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet <span class="sy0">&lt;</span><span class="kw6">hostname</span> or <span class="kw6">ip</span> address<span class="sy0">&gt;</span> <span class="sy0">&lt;</span>port number<span class="sy0">&gt;</span>
```

If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications
Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you need to use an SQL Server login, in which case you need to enable "SQL Server authentication" or "Mixed authentication". To verify the authentication type:

- Select the SQL Server in the Enterprise Manager
- Open the properties dialog
- Select the security tab

If you want to use "Windows NT authentication" with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.

The class name of the driver is: `<strong>com.inet.tds.TdsDriver</strong>`

The name of the pooled driver is: `<strong>com.inet.pool.PoolDriver</strong>`

The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA:

- `<strong>com.inet.tds.TdsDataSource</strong>` This is a simple DataSource. Also named JDBC 1 DataSource.
- `<strong>com.inet.tds.PDataSource</strong>` This is pooled DataSource.
This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the DTCProxy on the MS SQL Server side. You should use XA only if you need it. Using XA may result in a considerable performance decrease.

For a list of DataSource Properties look in the API documentation.

### 2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7: ....</td>
<td>support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as <code>&amp;sql7=true</code>)</td>
</tr>
<tr>
<td>jdbc:inetdae7a: ....</td>
<td>support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 compliance is required. See character converting JDBC 4.0 API.</td>
</tr>
<tr>
<td>jdbc:inetdae6: ....</td>
<td>SQL Server 6.5 compatible mode (passwords are transferred plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: ....</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetpool: ....</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

### 2.7 JDBC URL Syntax of the driver

```sql
jdbc:inetdae7:hostname:portnumber
```

This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the DTCProxy on the MS SQL Server side. You should use XA only if you need it. Using XA may result in a considerable performance decrease.
The pooled driver is only part of OPTA and MERLIA.

Examples:

```
jdbc:inetpool:inetdae7:hostname</td><td class="col1">&amp;#8211;&gt; with default port 1433</td>
</tr>
<tr class="row2">
<td class="col0">jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english</td><td class="col1">&amp;#8211;&gt; with properties</td>
</tr>
<tr class="row3">
<td class="col0">jdbc:inetdae7:hostname/instancename</td><td class="col1">&amp;#8211;&gt; with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
</tr>
<tr class="row4">
<td class="col0">jdbc:inetpool:servername/pipe/pipename | &amp;#8211;&gt; with named pipes | jdbc:inetdae7:servername/pipe/MSSQL$instancename/sql/query</td><td class="col1">&amp;#8211;&gt; named instance</td>
</tr>
</table></div>

<h3 id="jdbc-url-syntax-of-the-pooled-driver">2.8 JDBC URL Syntax of the Pooled Driver</h3>

<p>The pooled driver is only part of OPTA and MERLIA.</p>

```
</ul>
</li>
</div></p>

Examples:

```
jdbc:inetpool:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english</td><td class="col1">&amp;#8211;&gt; with properties</td>
</tr>
<tr class="row3">
<td class="col0">jdbc:inetdae7:hostname/instancename</td><td class="col1">&amp;#8211;&gt; with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
</tr>
<tr class="row4">
<td class="col0">jdbc:inetpool:servername/pipe/pipename | &amp;#8211;&gt; with named pipes | jdbc:inetdae7:servername/pipe/MSSQL$instancename/sql/query</td><td class="col1">&amp;#8211;&gt; named instance</td>
</tr>
</table>

<h3 id="jdbc-url-syntax-of-the-pooled-driver">2.8 JDBC URL Syntax of the Pooled Driver</h3>

<p>The pooled driver is only part of OPTA and MERLIA.</p>

```
```
```
<table>
<thead>
<tr>
<th>database</th>
<th>default is the user default database</th>
</tr>
</thead>
<tbody>
<tr>
<td>language</td>
<td>default is &quot;&quot; SQL Server default language</td>
</tr>
<tr>
<td>user</td>
<td>the database user, if empty the current windows user is used</td>
</tr>
<tr>
<td>password</td>
<td>password of the database user</td>
</tr>
<tr>
<td>charset</td>
<td>see Character Converting</td>
</tr>
<tr>
<td>initSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot; getWarnings()</td>
</tr>
<tr>
<td>Property</td>
<td>Default Value</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>logging</td>
<td>&quot;false&quot;</td>
</tr>
<tr>
<td>sql7</td>
<td>&quot;false&quot; with &quot;true&quot;</td>
</tr>
<tr>
<td>secureLevel</td>
<td>1</td>
</tr>
<tr>
<td>prepare</td>
<td>&quot;true&quot;</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>60</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>false</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override value from DriverManager.getLoginTimeout()</td>
</tr>
</tbody>
</table>
queryTimeout  default is 5 * loginTimeout. Set the default query timeout for all Statements.

JAVA_OBJECT  default is "true"

The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().

Application name (only Application and Enterprise licenses)

WSID  Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().

useCursorsAlways  default is "false" "true" the method executeQuery always uses server cursors.

resultSetType  default is "1003" (ResultSet.TYPE_FORWARD_ONLY) A list of valid values can find in chapter Scrolling Cursor Types.

useInsteadOfTrigger  default is "false" "true" - in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger.

impltran  with Driver the default is "true" for compatibility with the JDBC-ODBC bridge. with DataSource the default is "false" to reduce deadlock problems. If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction.
<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>fulltran</td>
<td>Default is &quot;true&quot;, creates always a transaction with setAutoCommit( false ); only if needed. With the option fulltran=true the method setAutoCommit() uses &quot;BEGIN TRAN&quot; and &quot;COMMIT TRAN&quot;. If the flag auto commit is set then there will always be a running transaction. With fulltran=false the method setAutoCommit() uses &quot;SET IMPLICIT_TRANSACTIONS ON&quot; and &quot;SET IMPLICIT_TRANSACTIONS OFF&quot;. If the flag auto commit is set then the transactions will only start if needed. More information on these SQL expressions and their behaviour can be found in the MSSQL Server Online Manual.</td>
</tr>
<tr>
<td>dstsave</td>
<td>Default is true. Effects the way timezone offset is calculated. The ways differ in speed and safety. If true, the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the API requests the status of a connection. There are 2 possible modes: * safe (default) - an additional round trip to the database is executed. * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()</td>
</tr>
<tr>
<td>fastbatch</td>
<td>Default is true. Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr>
<td>host</td>
<td>Override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property &quot;instance&quot;.</td>
</tr>
<tr>
<td>instance</td>
<td>Override the value in the JDBC URL. required the UDP port 1434</td>
</tr>
</tbody>
</table>
| port       | Override the value in the JDBC URL.
<tr class="row30">
<th class="col0 leftalign"> failover             </th><td class="col1 leftalign"> see chapter "Failover on getConnection()"
</td>
</tr>
<tr class="row31">
<th class="col0 leftalign"> mars                 </th><td class="col1 leftalign"> Enables ("true") or disables ("false") the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.
</td>
</tr>
<tr class="row32">
<th class="col0 leftalign"> packetSize           </th><td class="col1 leftalign"> Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.
</td>
</tr>
<tr class="row33">
<th class="col0 leftalign"> mode                </th><td class="col1 leftalign"> Only for DataSources. The value is equals to the JDBC sub protocol. See the API documentation for more details.
</td>
</tr>
<tr class="row34">
<th class="col0 leftalign"> typeMapping          </th><td class="col1 leftalign"> default is jdbc4
Which data type constant should be used from the driver. Available options are "jdbc3", "jdbc4" and "odbc". Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.
</td>
</tr>
<tr class="row35">
<th class="col0 leftalign"> sqlxml              </th><td class="col1 leftalign"> default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.
</td>
</tr>

There are three ways to put the properties to the driver:

<ol>
<li> append the properties to the URL like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch</li>
<li> call method getConnection(String url, Properties info) from the driver manager.</li>
<li> create a DataSource and set the properties with the set methods.</li>
</ol>

<h3 id="connections-to-the-msde-2000-release-a">2.10 Connections to the MSDE 2000 Release A</h3>
You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:<br/>
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0<br/>
<br/>Comments of the switches:<br/>
SAPWD="password"<br/>Set the password for the sa account. This is required for Windows Server 2003.<br/>
SECURITYMODE=SQL<br/>Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non Windows program like Java.<br/>
DISABLENETWORKPROTOCOLS=0<br/>Enable the TCP/IP protocol<br/>

2.11 Connection Examples

Eight examples are included in the download file.

ClassicDriver.java

An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)

PooledDriver.java

This example shows the use of the PoolDriver. A driver with internal connection pooling.
<h4 id="withdatasourcejava">WithDataSource.java</h4>
<div class="level4">
<p>How to create a connection with a datasource.</p>
</div>

<h4 id="withpooldatasourcejava">WithPoolDataSource.java</h4>
<div class="level4">
<p>How to use the PooledConnection of the driver.</p>
</div>

<h4 id="withpoolmanagerjava">WithPoolManager.java</h4>
<div class="level4">
<p>This demonstrates the use of the PoolManager i-net PLEXA®; i-net PLEXA®; is an example of a pool manager. i-net PLEXA® comes with i-net OPTA®;.</p>
</div>

<h4 id="withjdbcrowsetjava">WithJDBCRowSet.java</h4>
<div class="level4">
<p>How to use the JDBCRowSet from i-net software (i-net OPTA®;).</p>
</div>

<h4 id="withjndijava">WithJNDI.java</h4>
<div class="level4">
<p>This demonstrates the use of a DataSource with a JNDI directory.</p>
</div>
This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA™).

A sample with EJB and a XADataSource.

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is "sql/query", but you can change this pipe name in the server network manager.

The driver implements all escape clauses as follows:

4.1 Date and Time
**4.2 Stored Procedures**

```sql
{call storedProcedures('Param1'[,&'Param2'][,?,][...])}
```

Examples:

```java
st = con.createStatement();
st.execute("{call MyProc('value')}");
```

```java
pr = con.prepareStatement("{call MyProc('value')}");
pr.execute();
```

```java
pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.execute();
```

**4.3 Functions**

**Numeric Functions**

```sql
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
```
Time and Date Functions

<code>{fn now()} {fn curdate()} {fn curtime()} {fn DAYNAME(datetime)} {fn DAYOFMONTH(datetime)} {fn DAYOFWEEK(datetime)} {fn DAYOFYEAR(datetime)} {fn HOUR(datetime)} {fn MINUTE(datetime)} {fn MONTH(datetime)} {fn MONTHNAME(datetime)} {fn QUARTER(datetime)} {fn SECOND(datetime)} {fn WEEK(datetime)} {fn YEAR(datetime)} {fn TIMESTAMPDIFF(interval, count, datetime)} {fn TIMESTAMPADD(interval, datetime, datetime2)}</code>

interval may be one of the following:

```sql
SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
```
<h3 id="outer-join">4.4 Outer Join</h3>
<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>

<h3 id="encrypt">4.5 Encrypt</h3>
<pre class="code">{encrypt N'password'}</pre>

<h2 id="character-converting">5. Character Converting</h2>
<p>
By default character converting is disabled. To use character converting in the driver you need to append
"charset=YourCharSet" to the url.
</p>
<p>
for example: jdbc:inetdae:localhost:1433?charset=Cp1250
or jdbc:inetdae:localhost:1433?charset=&quot; + sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();
or jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;);
or jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();
TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.
You can test the availability of a character set with:
& quot;test string&quot;.getBytes( charset );
If this line executes correctly the character set is available in the current VM.
The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N.
Example: INSERT INTO myTable(ntext field) VALUES( N'national text' )
</p>

<h3 id="jdbc-40-api">5.1 JDBC 4.0 API</h3>
JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. PreparedStatement.setNString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support <abbr title="American Standard Code for Information Interchange">ASCII</abbr> characters only. If you need this compatibility then you have to use &quot;inetdae7a&quot; subprotocol. If you want all String setter functions support unicode characters, use &quot;inetdae7&quot; subprotocol.

<h2 id="new-datatypes">6. New Datatypes</h2>

<h3 id="new-datatypes-with-sql-server-70-and-2000">6.1 New Datatypes with SQL Server 7.0 and 2000</h3>

The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.

You can use the new datatypes if you use the jdbc url &quot;jdbc:inetdae7:...&quot; or set the property sql7=true.

If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.
6.2 New Data types with SQL Server 2005

SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

- Varchar(max)
- NVarchar(max)
- Varbinary(max)

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of SQL Server 2005(Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

6.3 New Data types with SQL Server 2008

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of SQL Server 2005(Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.
With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- `DATE`
- `TIME`
- `DATETIME2`
- `DATETIMEOFFSET`
- `GEOGRAPHY`
- `GEOMETRY`
- `HIERACHYID`

The other new data types are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

### 7. PreparedStatement Performance and Data Type Mapping

#### 7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the `<a href="http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tsqlref/ts_da-db_2js5.asp" class="urlextern" target="_blank" title="http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tsqlref/ts_da-db_2js5.asp">data type precedence</a>` rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.
This is the precedence order for the MS SQL Server data types:

- sql_variant (highest)
- datetime
- smalldatetime
- float
- real
- decimal
- money
- smallmoney
- bigint
- int
- smallint
- tinyint
- bit
- ntext
- text
- image
- timestamp
- uniqueidentifier
- nvarchar
- nchar
- varchar
- char
If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
</tbody>
</table>
| setString | NVARCHAR | 8000 TEXT

&gt; 4000 NTEXT

&gt; 8000 TEXT
7.3 The Performance Problem

If you use a set method that maps to a data type with a higher precedence, then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server cannot use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case...
the MS SQL Server can detect that it can convert downward the static parameter.

<p></p><p></p><p><strong>Solutions:</strong></p><p>1.) Use the correct set method.</p><p>2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:<br>... cast(? as TINYINT)</p><p>3.) Change the data type of the table.</p><p></p></div><h3 id="numeric-columns-and-sql-server-2000-sp4">7.4 Numeric columns and SQL Server 2000 SP4</h3><div class="level3">
<br>
BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don‘t match exactly the column type. For example Driver sends parameter as "decimal(38,36)". The column type is "numeric (7.0)". It seems that the index for the numeric column won‘t used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. "select * from testnumeric where a = CAST(? AS numeric(7,0))"</div><h2 id="scrolling-cursor-types">8. Scrolling Cursor Types</h2><div class="level2">
<br>
<table class="inline">
<tr class="row0">
<td class="col0">id</td><td class="col1">Description</td><td class="col2" leftalign"> </td>
</tr>
<tr class="row1">
<td class="col0">TYPE_FORWARD_ONLY-1</td><td class="col1">Fast-Forward</td><td class="col2">A forward only cursor with activated optimisation.</td>
</tr>
<tr class="row2">
<td class="col0">TYPE_FORWARD_ONLY</td><td class="col1">Forward-only</td><td class="col2">The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.</td>
</tr>
</table>
<h2 id="locking-and-concurrency-control">9. Locking and Concurrency Control</h2>

Concurrency type is one of the following concurrency control options.

<table>
<thead>
<tr>
<th>concurrency type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCUR_READ_ONLY</td>
<td>Read-only cursor. You cannot modify rows in the cursor result set.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE</td>
<td>Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all non-text, non-image values if timestamps are not available.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+1</td>
<td>Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+2</td>
<td>Optimistic concurrency control using</td>
</tr>
</tbody>
</table>
values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.  
</td>
</tr>
</table></div>
</div>

<h2 id="failover">10. Failover</h2>

<h3 id="failover-on-getconnection">10.1 Failover on getConnection()</h3>

If you set the property failover=true in the JDBC <abbr title="Uniform Resource Locator">URL</abbr> or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or DataSource that start with &quot;failover&quot; overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

```sql
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500
```

To set more than one failover possibility, use the following syntax:

```sql
```

host[N] and port[N] must form pairs, otherwise they will be ignored.

<h3 id="failover-with-clusters">10.2 Failover with Clusters</h3>

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the <abbr title="Application Programming Interface">API</abbr> documentation of the PoolManager.

<h3 id="monitored-failover">10.3 Monitored Failover</h3>
With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not.
The Connection tries to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again.


10.3.1 Configuration via Connection properties

There are multiple possibilities about how to configure the Monitored Failover.
It is possible to use the default implementation of the FailoverListener or to use your own implementation.
The default FailoverListener is similar to the TimedFailoverListener in the samples package.
To every created Connection automatically an instance of the configured FailoverListener will be added.

Set a FailoverListener via Connection properties:

<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
<tr>
<td>failoverListener</td>
<td>-</td>
<td>the class name of your own FailoverListener implementation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection.</td>
</tr>
</tbody>
</table>
example URLs:
jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10

For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

- com.inet.pool.PoolDriver
- com.inet.ora.PDataSource
- com.inet.tds.PDataSource
- com.inet.syb.PDataSource
- com.inet.drda.PDataSource

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection.

example:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl","scott","tiger");
```
FailoverListener fl = new samples.MonitoredFailover.CounteredFailoverListener(99);
(TAFConnection con).addFailoverListener(fl);

//remove a FailoverListener
(TAFConnection con).removeFailoverListener(fl);

//remove all FailoverListener
(TAFConnection con).removeAllFailoverListener();

//get all registered FailoverListener
FailoverListener[] fls = getFailoverListener();

</div>

<h2 id="snapshot-transaction-isolation">11. Snapshot Transaction Isolation</h2>

The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- **Modify the database**
  
  You can modify the database with the following SQL statement:

  ```sql
  ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON
  ```

- **initSQL**
  
  If you do not change the level at using of connection then you can set it at creation of the connection with:

  ```sql
  initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
  ```
<li class="level1"><div class="li"> <strong>Executing a statement</strong></div></li><p>You can also change it with the following Java line:</p><pre>conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");</pre><li class="level1"><div class="li"> <strong>setTransactionIsolation</strong></div></li><p>Since version 6.0.0.4 you can also set it via API with:</p><pre>conn.setTransactionIsolation(4096);</pre><h2 id="debugging">12. Debugging</h2><p>If you have problems with the driver then you can enable the logging of the driver. There are different solutions.</p><table class="inline"><tr class="row0"><td class="col0"> <strong>Solutions</strong></td><td class="col1"> <strong>examples</strong></td><td class="col2"> <strong>Comments</strong></td></tr><tr class="row1"><td class="col0"> DriverManager.setLogStream(PrintStream) </td><td class="col1"> DriverManager.setLogStream( System.out ); DriverManager.setLogStream( new FileOutputStream("c:\;\driver.log") ); </td><td class="col2"> This method is deprecated but it work with all JDBC drivers. </td></tr><tr class="row2"><td class="col0"> DriverManager.setPrintWriter(PrintWriter) </td><td class="col1"> DriverManager.setPrintWriter( new PrintWriter( System.out ) ) </td><td class="col2"> work not with JDBC 1.22 driver like i-net UNA </td></tr><tr class="row3"><td class="col0"> Application Server <abbr title="Graphical User Interface">GUI</abbr> </td><td class="col1"> <strong>WebLogic:</strong> Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC <strong>JBoss:</strong> You can set it for every DataSource in the config file with: </td><td class="col2"> </td></tr></table>
myDataSource.setPrintWriter(PrintWriter) &lt;/td&gt;&lt;td class="col1"&gt; myDataSource.setPrintWriter(new PrintWriter( System.out )) &lt;/td&gt;&lt;td class="col2"&gt; enable the logging only for connections from this DataSource &lt;/td&gt;&lt;/tr&gt;&lt;tr class="row5"&gt;&lt;td class="col0"&gt; JDBC &lt;abbr title="Uniform Resource Locator">URL</abbr> option &quot;logging=true&quot;&lt;/td&gt;&lt;td class="col1"&gt; jdbc:inetdae7=localhost?logging=true &lt;/td&gt;&lt;td class="col2 leftalign"&gt; enabling the logging only for connections from this DataSource &lt;/td&gt;&lt;/tr&gt;&lt;/table&gt;&lt;/div&gt;&lt;/div&gt;&lt;/h2&gt;13. Support&lt;/h2&gt;&lt;div class="level2"&gt;&lt;p&gt;Before you ask our support staff for assistance please check out our &lt;a href="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm" class="urlextern" target="_blank" title="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm">FAQ</a>. Thank you very much for your collaboration.&lt;/p&gt;&lt;p&gt;The latest support information are available at: &lt;a href="http://www.inetsoftware.de/support" class="urlextern" target="_blank" title="http://www.inetsoftware.de/support">http://www.inetsoftware.de/support</a&gt;&lt;/p&gt;&lt;p&gt;Support is available per email (replace at with @):&lt;/p&gt;&lt;div class="table "><table class="inline"&gt;&lt;tr class="row0"&gt;&lt;td class="col0"&gt; Licensing, Pricing, Updates, ... &lt;/td&gt;&lt;td class="col1"&gt; sales at inetsoftware.de &lt;/td&gt;&lt;/tr&gt;&lt;tr class="row1"&gt;&lt;td class="col0"&gt; i-net UNA &lt;/td&gt;&lt;td class="col1"&gt; una at inetsoftware.de &lt;/td&gt;&lt;/tr&gt;&lt;tr class="row2"&gt;&lt;td class="col0"&gt; i-net SPRINTA &lt;/td&gt;&lt;td class="col1"&gt; sprinta at inetsoftware.de &lt;/td&gt;&lt;/tr&gt;&lt;tr class="row3"&gt;&lt;td class="col0"&gt; i-net OPTA &lt;/td&gt;&lt;td class="col1"&gt; opta at inetsoftware.de &lt;/td&gt;&lt;/tr&gt;&lt;tr class="row4"&gt;&lt;td class="col0"&gt; i-net MERLIA &lt;/td&gt;&lt;td class="col1"&gt; merlia at inetsoftware.de &lt;/td&gt;&lt;/tr&gt;&lt;tr class="row5"&gt;&lt;td class="col0"&gt; i-net GATE &lt;/td&gt;&lt;td class="col1"&gt; opta at inetsoftware.de &lt;/td&gt;&lt;/tr&gt;&lt;/table&gt;&lt;/div&gt;
<h2 id="documentation">14. Documentation</h2>
<p>You can find more documentation at:<br/>
</p>

<h2 id="known-problems">15. Known problems</h2>
<ul>
  <li class="level1"><div class="li"> SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int<br/>
   possible workarounds are:</div>
   <ul>
     <li class="level2"> set integer values instead of Strings</li>
   </ul></li>
  <li class="level1"> set JDBC <abbr title="Uniform Resource Locator">URL</abbr> &quot;jdbc:inetdae7a&quot; - take care about no unicode support</li>
  <li class="level1"> set JDBC <abbr title="Uniform Resource Locator">URL</abbr> parameter &quot;tds9=false&quot; - results in unsupport of new sql server 2005 data types</li>
  <li class="level1"> When using named pipes, setting timeout has no effect.</li>
  <li class="level1"> When using named pipes, cancel() has no effect.</li>
  <li class="level1"> The method getTableName() requires a cursor or the &quot;for browse&quot; statement.</li>
  <li class="level1"> Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter &quot;char(10) output&quot; and the output value is &quot;abc    &quot; you receive the value &quot;abc&quot;).</li>
</ul>
The classes Array, Ref and URL are not supported because these are not supported by the SQL Server.

The following methods are not supported by this release:

- `PreparedStatement.setArray (int i, Array x)`
- `PreparedStatement.setRef (int i, Ref x)`
- `PreparedStatement.setURL = "int-i-abbr-title-Uniform-Resource-Locator-URL-abbr-x"`
- `CallableStatement.getObject (int i, java.util.Map map)`
- `CallableStatement.getRef (int i)`
- `CallableStatement.getArray (int i)`
- `CallableStatement.getURL = "int-i"`
- `All method with a named parameter.`
- `DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)`
- `DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)`
- `ResultSet.getObject (int i, java.util.Map map)`
- `ResultSet.getRef (int i)`
- `ResultSet.getArray (int i)`
- `ResultSet.getURL = "int-i"`
- `ResultSet.updateArray (int i, Array x)`
- `ResultSet.updateRef (int i, Ref x)`
- `All setXXX methods in Blob and Clob.`
16. Using SSL connections

If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

- a server-wide certificate on the computer with the MS SQL Server 2000.

**Note:** You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

**WARNING:** After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

- the JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

16.1. Create a Certificate Request

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

- Run the Internet Services Manager that is located in the Administrative Tools folder.
- Right-click on the Default Web Site node for the server and select Properties from the context menu.
Click on the "Directory Security" tab.

Click on the "Server Certificate" button. A wizard should appear.

Click the "Next" button.

The "Create a new certificate" radio button should be selected. Click the "Next" button.

The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.

Click the "Next" button.

Enter your organization name and unit and click the "Next" button.

In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.

Enter your State and City. Click the "Next" button.

Accept the default file name of c:\certreq.txt and click the "Next" button.

Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit
Run Internet Explorer and enter the <abbr title="Uniform Resource Locator">URL</abbr>

Select "Request a Certificate" and click "Next".
Select "Advanced Request" and click "Next".
Select the PKCS#10 option and click "Next".
Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.
It will tell you the request is pending. Click on the home hyperlink at the top.
Run the Certificate Authority application that is located under Administrative Tools.
Click on Pending Requests. You'll see the request that you just made in there.
Right-click on the request and select All Tasks/Issue.
Now, go back to the computer that runs the SQL Server/IIS where you made the request from. Select the "Check on pending certificate" option and click the "Next" button.
You should see the "Saved-Request Certificate" in there now. Click the "Next" button.
Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the "computer account".

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

Start the MMC.EXE and add the Certificates snap-in for the "computer account".

Select the Certificate in the "Personal" or "Own Certificate" Folder.

Drop the Certificate.

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>col0</td>
<td>value</td>
</tr>
<tr>
<td>col1</td>
<td>description</td>
</tr>
</tbody>
</table>

Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1 (default)</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
<tr>
<td>3</td>
<td>Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</td>
</tr>
</tbody>
</table>

17. Changes

17.1 Changes in Version 5.00 (MERLIA 2.00)  (9. Dec 2002)

- For XA support the extended procedures was replaced with a NT-Service.
- The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.

17.2 Changes in Version 5.01 (MERLIA 2.01)  (5. Feb 2003)

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.
- ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).
A bug with wasNull() and getXXX( x, Calendar) was fixed.

A bug with isFirst() in CachedRowSet was fixed.

A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

A bug with CachedRowSet and setXXX was fixed. It works without clearParmeters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

A bug with with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Method PoolManager.closeConnection(Conne...) was added.

Errors in ResultSet.close() are caught now.
A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.

The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.

Connections with a read timeout are removed from the connection pool.

The return value of supportsStatementPooling() was changed.

A bug with a DataSource not from the JNDI and equals() was fixed.

The method getParameterMetaData() was implemented.

The methods setImpltran() and getImpltran() were added.

Timestamp objects can be created (read) faster with JDK 1.4.x now.

A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.

Datetime formats with short month and days like '1999-5-5' are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.

The AsciiStream always sends Ascii data (also in unicode mode).

The error 'Unknown parameter datatype:-12347' with setUnicodeStream and server site PreparedStatement was fixed.

The call setObject( x, value, Types.BIT ) accepts numeric Strings now.

The detecting of the default codepage of the SQL Server 2000 was changed.
The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateDateTimeFunctions() and getNumericFunctions() were refactored.

The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.

The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter( x, Types.BOOLEAN) was added.

The synchonized from Connection.close() was removed.

The truncate of SP output parameter without input value on length 255 was fixed.

Support for SSL was added.

Support for SSL was added.

Support for SSL was added.
<ul>
<li>A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.</li>
<li>A NullPointerException with DataSources was fixed. The bug exists since 6.00.</li>
<li>The methods setSecureLevel() and getSecureLevel() were added.</li>
<li>The regression that connect to MS SQL Server 6.5 fails was fixed.</li>
<li>The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.</li>
<li>A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.</li>
<li>The ClassNotFoundExption withh SSL on the console with JDK 1.3 was removed.</li>
<li>The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.</li>
<li>Fixes in isAfterLast and isBeforeFirst for empty Resultsets</li>
<li>A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since 5.03.01.</li>
<li>A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.</li>
</ul>


<ul>
<li>Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.</li>
<li>A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.</li>
<li>The wrong message "Statement.cancel:Statement is currently not running" on running Statements was removed.</li>
</ul>
The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.

The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (FTP), 80 (HTTP) or 1521 (Oracle).

The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.

Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.

The methods setAppname() and getAppname() were added to the DataSources.

The methods setFulltran() and getFulltran() were added to the DataSources.

Support for the new protocol of SQLServer 2005 was added.

Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

The property lastUpdateCount was added.

The sql state &quot;100029&quot; was changed to &quot;07001&quot;. It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.

A bug with Statement.cancel() and SSL and forceEncryption was fixed.

A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.

The methods of DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.
Some changes on the time behavior after a call of cancel() or if a query timeout occurs.
The timing for resolving the instance name was changed.
The property WSID was added.
The restoring of the connection after a query timeout is faster now if the MS SQL Server does not need to rollback.
Support for the data type BIGINT in the method updateObject(i,x) was added.
The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.
If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.
An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.
An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.

Connection failover was expanded to set more than one failoverhost.
Added setLogging(String) and setProperty(String) to class TdsDataSource.
The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.

<ul class="level1">
  <li class="li">Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.</li>
  <li class="li">The bug in DataSource overwriting the original host/port information in failover case has been fixed.</li>
  <li class="li">The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.</li>
  <li class="li">A java.lang.ArrayIndexOutOfBoundsException with DTCDatasource on XA transaction starting with a full expanded Xid was fixed. The DTCPProxy was also changed to version 1.04.</li>
  <li class="li">CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).</li>
  <li class="li">Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.</li>
  <li class="li">Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message "Invalid object name" had been issued by mistake.</li>
  <li class="li">The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.</li>
  <li class="li">Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.</li>
  <li class="li">Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:\[2002:d201:a413::d201:a413]:1433</li>
  <li class="li">Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.</li>
  <li class="li">Method PoolManager.dispose() was added.</li>
  <li class="li">The exception "Unknown TDS packet type: 18" will not be thrown anymore.</li>
  <li class="li">Performance increasing: executing a prepared statement runs faster at the first execute call.</li>
  &quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.</li>
  <li class="li">The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int)</li>
</ul>
Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

Reading out type money and type smallmoney from sql_variant column was fixed.

New driver property "dstsave".

Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)

Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.

Reading values from MONEY columns with getDouble() has been fixed to return correct values.

Since version 6.05 CachedRowSet.populate(ResultSet) didn't work. This is fixed now.

There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.

An excrescent stacktrace log output was removed. (SocketException)

TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.

Since version 6.05: If a statement was already prepared, executing it as batch failed.

SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().

Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.
PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[], String and InputStream values in addition.

since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.

since 6.04.12, prepare end execute statements didn’t worked with SQL Server 7.

Multiple protocol changes to adapt driver to final SQL Server 2005. Fix the bug with transaction.

Adapted meta data requests to changes made in final SQL Server 2005.

In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.

When the PreparedStatement contained a character sequence in SQL like &#039;&#8211;&#039;, the parameters following were ignored.

Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC URL.)

The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.

If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.

Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.

Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.

The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.

Only SQL Server 2005: ResultSetMetaData.getColumnClassName()
didn’t regard the max data types of SQL Server 2005. An "unknown type" Exception was thrown before.</div>

Only SQL Server 2005: PreparedStatement.setString with empty String value sends null instead of empty String.</div>

Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error "column type XX is unknown".</div>

An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeXXX() was fixed. The exception could occur with an additional PreparedStatement pool.</div>

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.</div>

NPE fix in Statement close() call.</div>

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.</div>

Calling PreparedStatement.executeQuery() after PreparedStatement.executeQuery() could cause an infinite loop.</div>

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.</div>

If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.</div>

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.</div>

A ClassCastException was fixed in method PoolManager.closeAll().</div>

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.</div>

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.</div>

</div>

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method PoolManager.getConnection() is follow more the FIFO concept.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 Megabyte are send as bulk. Now you can save data until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.

The warnings of getTransactionIsolation() are ignored now.

The bulk transfer limit was reduced from 200

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A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of dstSave was changed to true.

Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.

Transaction isolation snapshot was added.

The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.

ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.

PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.

The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.

A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.

A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.
The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.

Some protocol violations with the data type XML were fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000
[xyz2005]Could not find server 'xyz2005' in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;

A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.

Integrated Windows Authentication for TCP/IP connections was added.

An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.

The methods getFunctions and getFunctionColumns are now implemented.

The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.

Property statusRequest added.

An encoding bug with the XML data type of the SQL Server 2005 was fixed.

The following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran, imptran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].

Changes in Version 7.02  (13. Sep 2007)

Property statusRequest added.

An encoding bug with the XML data type of the SQL Server 2005 was fixed.

- The error "The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly." with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.
- The follow SQL "SELECT {ts '2007-10-19 10:20:30.000'}" returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.
- A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator.".
- Instances of PDataSource could not have been serialized.
- "hostProcess" is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table "sysprocesses". It is also used for JDBC logging.
- With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000
[xyz2005]Could not find server #039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".
- Fix a bug with Windows NT authentication and SQL Server 2005.
- Connection property resultSetType added.


- A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.
- The error "Fatal error on prepare. Connection will be closed." which occurred with a very fast cancel() was fixed.
The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.

The error message "Could not find prepared statement with handle 0." was fixed.

The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.

The method DataSource.setUrl was added.

The call ResultSet.findColumn(""); did not find empty columns.

A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error "Error converting data type decimal to decimal.".

Some error handling was added for connecting to prevent problems in stress conditions.

The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.

A bug with large server certificates (\geq 8KBit) was fixed. A connection was only possible with secureLevel=0.

There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.

<ul>
  <li class="level1"> Empty strings in CacheRowSet changed to null values after serialization.</li>
  <li class="level1"> A very rare &quot;ArrayIndexOutOfBoundsException: Array index out of range: 0&quot; on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary key.</li>
  <li class="level1"> The inactive timeout of the PoolManager is now reset with every method call.</li>
  <li class="level1"> The property fastbatch was added.</li>
  <li class="level1"> A possible hanging in socket.skip() after a timeout or cancel was fixed.</li>
  <li class="level1"> An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.</li>
  <li class="level1"> Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.</li>
  <li class="level1"> The error &quot;Unknown parameter datatype:-16 - null&quot; with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.</li>
  <li class="level1"> Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.</li>
</ul>


<ul>
  <li class="level1"> Fixed some bugs in ParameterMetaData.</li>
  <li class="level1"> Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.</li>
  <li class="level1"> A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.</li>
  <li class="level1"> Fixed some bugs in setClientInfo(String,String) and optimized performance.</li>
</ul>
Removed the finalize() method from the Connection object.

Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception &quot;java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)&quot; on getConnection().

Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.

A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.

An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.

With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.

A memory leak in the DTCProxy was fixed.

Long-running XA transactions were rolled back after 10 minutes under very rare conditions.

Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.
<li class="level1"><div class="li"> Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div></li>
<li class="level1"><div class="li"> Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</div></li>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added property packetSize and changed the default from server default to 8000.</div></li>
<li class="level1"><div class="li"> Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.</div></li>
<li class="level1"><div class="li"> Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.</div></li>
<li class="level1"><div class="li"> The method getClob() returned wrong data for data type VARCHAR(MAX).</div></li>
<li class="level1"><div class="li"> Changed the default value of impltran for PDataSource to false.</div></li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in <abbr title="American Standard Code for Information Interchange">ASCII</abbr> mode (sub protocol inetdae6 and inetdae7a).</div></li>
<li class="level1"><div class="li"> A regression with ParameterMetaData note setting parameters was fixed.</div></li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException on ResulSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.</div></li>
<li class="level1"><div class="li"> A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.</div></li>
</ul>
</div>
17.27. Changes in Version 8.03 (17. Apr 2013)

A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.


Does not use the package sun.misc.* on Java 6 and newer.

17.29. Changes in Version 8.05 (9. Apr 2014)

A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached.

Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.

Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.


Added support for VNN (virtual network names) together with instance names.

Fixed the exception with setNull(x, Types.OTHER). It is matched to type sql_variant and can be slow.
No longer write the password to the driver log.

Add the interface NtlmHandshake to support an external NTLM login source.

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src/plugin/urlfilter-automaton/lib/automaton.jar
dk.brics.automaton

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Anders Moeller
amoeller@brics.dk

tsrc/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/clustering-carrot2/lib/violinstrings-1.0.2.jar

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src/plugin/clustering-carrot2/lib/carrot2-util-common.jar
src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.jar
src/plugin/clustering-carrot2/lib/carrot2-snowball-stemmers.jar
src/plugin/clustering-carrot2/lib/carrot2-util-tokenizer.jar
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ASF
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src/plugin/parse-pdf/lib/PDFBox-0.7.4-dev.jar

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src/plugin/parse-pdf/lib/bcprov-jdk14-132.jar

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src/plugin/lib-xml/lib/jdom.jar

/*--

$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp $

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*/

src/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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*/

src/plugin/lib-xml/lib/saxpath.jar

/*--

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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*/

src/plugin/lib-xml/lib/xercesImpl.jar

ASF

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5.314 jboss-client 7.2.0.Final

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JUnit test library (junit-3.8.1.jar)

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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a de-facto standard. To achieve this, non-free programs must be

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allowed to use the library. A more frequent case is that a free

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library does the same job as widely used non-free libraries. In this

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case, there is little to gain by limiting the free library to free

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programs enables a greater number of people to use a large body of

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is invoked, then you must make a good faith effort to ensure that,

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in the event an application does not supply such function or

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table, the facility still operates, and performs whatever part of

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its purpose remains meaningful.

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(For example, a function in a library to compute square roots has

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a purpose that is entirely well-defined independent of the

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application. Therefore, Subsection 2d requires that any

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application-supplied function or table used by this function must

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be optional: if the application does not supply it, the square

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root function must still compute square roots.)

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Section 6 states terms for distribution of such executables.

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.

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
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Otherwise, if the work is a derivative of the Library, you may
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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
reproducing the executable from it. However, as a special exception,

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the materials to be distributed need not include anything that is

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normally distributed (in either source or binary form) with the major

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components (compiler, kernel, and so on) of the operating system on

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which the executable runs, unless that component itself accompanies

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the executable.

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It may happen that this requirement contradicts the license

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restrictions of other proprietary libraries that do not normally

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accompany the operating system. Such a contradiction means you cannot

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use both them and the Library together in an executable that you

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distribute.

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necessary. Here is a sample; alter the names:

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library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

, 1 April 1990
Ty Coon, President of Vice
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******************************************************************************
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freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd

Historical notes
----------------

FreeMarker 1.x was released under the LGPL license. Later, by
community consensus, we have switched over to a BSD-style license. As
of FreeMarker 2.2pre1, the original author, Benjamin Geer, has
relinquished the copyright in behalf of Visigoth Software Society.
With FreeMarker 2.3.21 the license has changed to Apache License, Version 2.0, and the owner has changed from Visigoth Software Society to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel Dekany, and Jonathan Revusky.

1. WORKING WITH MAVEN
=======================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

```
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...
```

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.
* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...
  <servers>
    ...
    <server><id>jboss-developer</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server><id>jboss-snapshots</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server><id>jboss-releases</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    ...
  </servers>
</settings>
```
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
============

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are run as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------

* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------

The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test
Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, ike so:

$ mvn surefire-report:report-only

2.3. Executing different groups

A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test

A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package

This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test

2.6. Skipping the test run

It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run. To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).
2.7. Permutations

-----------------

We use the term permutation to describe a group execution against a particular config. This allows us to test a variety
of environments and configurations without rewriting the same basic test over and over again. For example, the
jgroups-tcp
permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which
defines the
various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple
permutations without wiping the results from the previous run. Note that due to the way maven operates, only one
permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other
execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE

--------------------------------------------------------

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the
DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file
to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson

---------------------------------------------

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is
set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in
target/site/project-reports.html - which should be linked from the CruiseControl summary page.

1. WORKING WITH MAVEN
Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries
* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...
This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your
WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
 ...
 <servers>
 ...
 <server>
   <id>jboss-developer</id>
   <username>jboss.org username</username>
   <password>jboss.org password</password>
 </server>
 <server>
   <id>jboss-snapshots</id>
   <username>jboss.org username</username>
   <password>jboss.org password</password>
 </server>
 <server>
   <id>jboss-releases</id>
   <username>jboss.org username</username>
   <password>jboss.org password</password>
 </server>
 ...
</servers>
 ...
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This can be achieved by passing in the package name with a wildcard to the test parameter.

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Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

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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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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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* Documentation Location
* Third-Party Component Notices

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its purpose remains meaningful.

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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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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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uses the Library", as object code and/or source code, so that the

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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

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file is unrestricted, regardless of whether it is legally a derivative
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Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may

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distribute the object code for the work under the terms of Section 6.

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Any executables containing that work also fall under Section 6,

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whether or not they are linked directly with the Library itself.

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

272
link a "work that uses the Library" with the Library to produce a

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work containing portions of the Library, and distribute that work

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under terms of your choice, provided that the terms permit

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modification of the work for the customer's own use and reverse

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engineering for debugging such modifications.

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Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

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1.2 Using the Driver in an Applet

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1. Installation

The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

1.2 Using the Driver in an Applet

Add the driver jar file to the archive attribute of the applet tag, e.g.:
<pre class="code html4strict">
&lt;APPLET CODE="..." Codebase="..." ARCHIVE="Merlia.jar" WIDTH="100%" HEIGHT="100%"&gt;
...
&lt;/APPLET&gt;
</pre>

or extract the jar in the directory of the applet.

2. Getting Started

2.1 SQL Server, Java and JDBC Versions

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>&lt;td class=&quot;col1&quot;&gt; minimum required JDK version &lt;/td&gt; &lt;td class=&quot;col2&quot;&gt; JDBC Version &lt;/td&gt;</td>
<td></td>
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</table>
All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2000
- Microsoft SQL Server 7.0
- Microsoft SQL Server 6.5

with all Service Packs (32 bit / 64 bit)
<table>
<thead>
<tr>
<th>JDBC API</th>
<th>1.22</th>
<th>2.0</th>
<th>2.0+</th>
<th>4.0</th>
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<td>PreparedStatement pooling</td>
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<td>Scrollable and Updatable ResultSets</td>
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<td>Connection Pooling</td>
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<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple Open ResultSets per Statement</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
A more complete list can be found at:

http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:
Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet <hostname> or <ip address> <port number>
```

If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications

Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you need to use an SQL Server login, in which case you need to enable "SQL Server authentication" or "Mixed authentication". To verify the authentication type:

- Select the SQL Server in the Enterprise Manager
- Open the properties dialog
- Select the security tab
If you want to use "Windows NT authentication" with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.

The class name of the driver is: \texttt{com.inet.tds.TdsDriver}

The name of the pooled driver is: \texttt{com.inet.pool.PoolDriver}

The following DataSources are only available in OPTA and MERLIA:

- \texttt{com.inet.tds.TdsDataSource}: This is a simple DataSource. Also named JDBC 1 DataSource.
- \texttt{com.inet.tds.PDataSource}: This is pooled DataSource.
- \texttt{com.inet.tds.DTCDataSource}: This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.

For a list of DataSource Properties look in the API documentation.
### 2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7: hostname:portnumber</td>
<td>support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&amp;sql7=true)</td>
</tr>
<tr>
<td>jdbc:inetdae7a: hostname:portnumber</td>
<td>support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 &amp; abbr title=&quot;Application Programming Interface&quot; API compliance is required. See character converting JDBC 4.0 API.</td>
</tr>
<tr>
<td>jdbc:inetdae6: hostname:portnumber</td>
<td>SQL Server 6.5 compatible mode (passwords are transferred plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: hostname:portnumber</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetpool: hostname:portnumber</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

### 2.7 JDBC URL Syntax of the driver

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:hostname:portnumber</td>
<td>with default port 1433</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname?database=MyDb&amp;language=us_english</td>
<td>with properties</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname/instancename</td>
<td>with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
</tr>
</tbody>
</table>
<h3 id="jdbc-url-syntax-of-the-pooled-driver">2.8 JDBC URL Syntax of the Pooled Driver</h3>

The pooled driver is only part of OPTA and MERLIA.

Examples:

- jdbc:inetpool:inetdae7:www.inetsoftware.de:1433
- jdbc:inetpool:inetdae7:localHost:1433
- jdbc:inetdae7:210.1.164.19:1433
- jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433
- jdbc:inetpool:jdbc:inetdae7:localHost:1433

<h3 id="implemented-driver-properties">2.9 Implemented Driver Properties</h3>
<table>
<thead>
<tr>
<th>Database</th>
<th>default is the user default database</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td>User</td>
<td>the database user, if empty the current windows user is used</td>
</tr>
<tr>
<td>Password</td>
<td>password of the database user</td>
</tr>
<tr>
<td>Charset</td>
<td>see Character Converting</td>
</tr>
<tr>
<td>InitSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td>Nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>Logging</td>
<td>default is &quot;false&quot; If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.</td>
</tr>
<tr>
<td>Sql7</td>
<td>default is &quot;false&quot; with</td>
</tr>
<tr>
<td>Property</td>
<td>Default</td>
</tr>
<tr>
<td>----------------</td>
<td>---------</td>
</tr>
<tr>
<td>secureLevel</td>
<td>default is 1; set the level of security with SSL.</td>
</tr>
<tr>
<td>prepare</td>
<td>default is &quot;true&quot;</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>default is 60</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is &quot;true&quot;</td>
</tr>
</tbody>
</table>
your own Java serialization then the best solution is to use `getBytes()` and not `getObject()`.

### Application name (only Application and Enterprise licenses)

...
this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.

</td>
</tr>
<tr class="row24">
<th class="col0 leftalign"> statusRequest        </th><td class="col1 leftalign"> Set the mode with which the <abbr title="Application Programming Interface">API</abbr> requests the status of a connection. There are 2 possible modes:
  * safe (default) - an additional round trip to the database is executed.
  * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()
</td>
</tr>
<tr class="row25">
<th class="col0 leftalign"> fastbatch            </th><td class="col1 leftalign"> default is true<br/>
Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false. 
</td>
</tr>
<tr class="row27">
<th class="col0 leftalign"> fetchsize            </th><td class="col1 leftalign"> i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().
</td>
</tr>
<tr class="row28">
<th class="col0 leftalign"> host                 </th><td class="col1 leftalign"> override the value in the JDBC <abbr title="Uniform Resource Locator">URL</abbr>. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property "instance".
</td>
</tr>
<tr class="row29">
<th class="col0 leftalign"> instance             </th><td class="col1 leftalign"> override the value in the JDBC <abbr title="Uniform Resource Locator">URL</abbr>, required the UDP port 1434
</td>
</tr>
<tr class="row30">
<th class="col0 leftalign"> port                 </th><td class="col1 leftalign"> override the value in the JDBC <abbr title="Uniform Resource Locator">URL</abbr>
</td>
</tr>
<tr class="row31">
<th class="col0 leftalign"> failover             </th><td class="col1 leftalign"> see chapter "Failover on getConnection()"
</td>
</tr>
<tr class="row32"
packetSize

Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.

mode

Only for DataSources. The value is equals to the JDBC sub protocol. See the <a href="doc/index.67c26e572542f9b2e52207bf2f957253.html#setMode%28int%29" target="_blank" class="wikilink1">API documentation</a> for more details.

typeMapping

default is jdbc4

Which data type constant should be used from the driver. Available options are <em>jdbc3</em>, <em>jdbc4</em> and <em>odbc</em>. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.

sqlxml

default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.

There are three ways to put the properties to the driver:

1. append the properties to the <abbr title="Uniform Resource Locator">URL</abbr> like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch</div>
2. call method getConnection(String url, Properties info) from the driver manager.
3. create a DataSource and set the properties with the set methods.

2.10 Connections to the MSDE 2000 Release A

You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0

Comments of the switches:

SAPWD="password"

Set the password for the sa account. This is required for Windows Server 2003.

SECURITYMODE=SQL

Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non Windows
DISABLENETWORKPROTOCOLS=0
Enable the TCP/IP protocol

<h3 id="connection-examples">2.11 Connection Examples</h3>

<p>
Eight examples are included in the download file.
</p>

<h4 id="classicdriverjava">ClassicDriver.java</h4>

<p>
An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)
</p>

<h4 id="pooleddriverjava">PooledDriver.java</h4>

<p>
This example shows the use of the PoolDriver. A driver with internal connection pooling.
</p>

<h4 id="withdatasourcejava">WithDataSource.java</h4>

<p>
How to create a connection with a datasource.
</p>
<h4 id="withpooldatasourcejava">WithPoolDataSourece.java</h4>
<div class="level4">
<p>How to use the PooledConnection of the driver.</p>
</div>

<h4 id="withpoolmanagerjava">WithPoolManager.java</h4>
<div class="level4">
<p>This demonstrates the use of the PoolManager i-net PLEXA&amp;#8482;. i-net PLEXA&amp;#8482; is an example of a pool manager. i-net PLEXA™ (i-net PLEXA™) comes with i-net OPTA&amp;#8482;.
</p>
</div>

<h4 id="withjdbcrowsetjava">WithJDBCRowSet.java</h4>
<div class="level4">
<p>How to use the JDBCRowSet from i-net software (i-net OPTA&amp;#8482;).
</p>
</div>

<h4 id="withjndijava">WithJNDI.java</h4>
<div class="level4">
<p>This demonstrates the use of a DataSource with a JNDI directory.
</p>
</div>

<h4 id="withjndiandpoolmanagerjava">WithJndiAndPoolManager.java</h4>
<div class="level4">
<p>This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA&amp;#8482;).
</p>
</div>

<h4 id="package-samplexa">Package sample.xa</h4>
A sample with EJB and a XADataSource.

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is `/sql/query`, but you can change this pipe name in the server network manager.

The driver implements all escape clauses as follows:

4.1 Date and Time

```java
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}
```

4.2 Stored Procedures

```java
{call storedProcedures('Param1'[,&#039;Param2'[,?][...])}
{? = call storedProcedures('Param1'[,&#039;Param2'[,?][...])}
```
examples:

```java
st = con.createStatement();
st.executeUpdate("{call MyProc('value')}");
```

```java
pr = con.prepareStatement("{call MyProc('value')}");
pr.executeUpdate();
```

```java
pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.executeUpdate();
```

```java
pr = con.prepareStatement("{call MyProc('value')}");
pr.setString("value");
pr.executeUpdate();
```

```java
pr = con.prepareStatement("{call MyProc('value')}");
pr.setString("value");
pr.executeUpdate();
```


<h3 id="functions">4.3 Functions</h3>

Numeric Functions

```javascript
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
```
\[
\text{fn SIN(float)} \\
\text{fn SQRT(float)} \\
\text{fn TAN(float)} \\
\]

<p>
Time and Date Functions</p>

<pre class="code">
{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMMPADD(interval, datetime, datetime2)}
</pre>

<p>
interval may be one of the following:
</p>

<pre class="code">
SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR
</pre>

<h3 id="outer-join">4.4 Outer Join</h3>

<pre class="code">
{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}
</pre>

<h3 id="encrypt">4.5 Encrypt</h3>
5. Character Converting

By default character converting is disabled. To use character converting in the driver you need to append charset=YourCharSet; to the url.

for example: "jdbc:inetdae:localhost:1433?charset=Cp1250"

or "jdbc:inetdae:localhost:1433?charset=
+ sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();"

or "jdbc:inetdae:localhost:1433?charset=
+ System.getProperty("file.encoding");"

or "jdbc:inetdae:localhost:1433?charset=
+ (new java.io.InputStreamReader(in)).getEncoding();"

TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.

You can test the availability of a character set with:

If this line executes correctly the character set is available in the current VM.

The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N.

Example: "INSERT INTO myTable(ntext field) VALUES( N'national text' )"

5.1 JDBC 4.0 API

JDBC 4.0 is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g.

PreparedStatement.setString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support ASCII characters only. If you need this compatibility then you have to use "inetdae7a" subprotocol.

If you want all String setter functions support unicode characters, use "inetdae7" subprotocol.

6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.

You can use the new datatypes if you use the jdbc url "jdbc:inetdae7:..." or set the property sql7=true.

If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.

-8 - NCHAR
-9 - NVARCHAR
-10 - NTEXT
-11 - UNIQUEIDENTIFIER
-150 - SQL_VARIANT

6.2 New Data types with SQL Server 2005

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.

-8 - NCHAR
-9 - NVARCHAR
-10 - NTEXT
-11 - UNIQUEIDENTIFIER
-150 - SQL_VARIANT
SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

- Varchar(max)
- NVarchar(max)
- Varbinary(max)

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of the SQL Server 2005(Yukon) you don’t need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- DATE
- TIME
- DATETIME2
- DATETIMEOFFSET
The other new data types:

- GEOGRAPHY
- GEOMETRY
- HIERACHYID

are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

---

## 7. PreparedStatement Performance and Data Type Mapping

### 7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the precedence rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:

- sql_variant (highest)
- datetime
- smalldatetime
- float
7.2 Data Type Mapping

- real
- decimal
- money
- smallmoney
- bigint
- int
- smallint
- tinyint
- bit
- ntext
- text
- image
- timestamp
- uniqueidentifier
- nvarchar
- nchar
- varchar
- char
- varbinary
- binary (lowest)
If you use the set methods of a PreparedStatement then you will have the following mapping:

```html
<div class="table ">
<table class="inline">
<tr class="row0">
<td class="col0"> <strong>Method</strong> </td><td class="col1"> MS SQL Data Type with protocol inetdae7 </td><td class="col2"> MS SQL Data Type with protocol inetdae7a </td>
</tr>
<tr class="row1">
<td class="col0"> setBoolean </td><td class="col1"> BIT </td><td class="col2"> .. </td>
</tr>
<tr class="row2">
<td class="col0"> setByte </td><td class="col1"> TINYINT </td><td class="col2"> .. </td>
</tr>
<tr class="row3">
<td class="col0"> setShort </td><td class="col1"> SMALLINT </td><td class="col2"> .. </td>
</tr>
<tr class="row4">
<td class="col0"> setInt </td><td class="col1"> INT </td><td class="col2"> .. </td>
</tr>
<tr class="row5">
<td class="col0"> setLong </td><td class="col1"> BIGINT </td><td class="col2"> .. </td>
</tr>
<tr class="row6">
<td class="col0"> setFloat </td><td class="col1"> REAL </td><td class="col2"> .. </td>
</tr>
<tr class="row7">
<td class="col0"> setDouble </td><td class="col1"> FLOAT </td><td class="col2"> .. </td>
</tr>
<tr class="row8">
<td class="col0"> setBigDecimal </td><td class="col1"> DECIMAL </td><td class="col2"> .. </td>
</tr>
<tr class="row9">
<td class="col0"> setString </td><td class="col1"> &amp;#8656; 4000 NVARCHAR</td><td class="col2"> &amp;#8656; 8000 VARCHAR</td>
</tr>
<tr class="row10">
<td class="col0"> setAsciiStream </td><td class="col1"> &amp;#8656; 8000 VARCHACT </td><td class="col2"> .. </td>
</tr>
<tr class="row11">
<td class="col0"> setClob </td><td class="col1"> &amp;#8656; 4000 NVARCHAR</td><td class="col2"> &amp;#8656; 8000 VARCHAR</td>
</tr>
<tr class="row12">
<td class="col0"> setCharacterStream </td><td class="col1"> &amp;#8656; 4000 NVARCHAR</td><td class="col2"> &amp;#8656; 8000 VARCHAR</td>
</tr>
</table>
</div>
```
7.3 The Performance Problem

If you use a set method that maps to a data type with a higher precedence then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server can't use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case the MS SQL Server can detect that it can convert downward the static parameter.

**Solutions:**
1.) Use the correct set method.

2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:

```sql
... cast(? as TINYINT)
```
3.) Change the data type of the table.

BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don’t match exactly the column type. For example Driver sends parameter as “decimal(38,36)”, the column type is “numeric (7,0)”. It seems that the index for the numeric column won’t used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. “select * from testnumeric where a = CAST(?, AS numeric(7,0))”

8. Scrolling Cursor Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward. A forward only cursor with activated optimisation.</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only. The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>Insensitive keyset cursor. Use a concurrency of CONCUR_READ_ONLY. SQL Server will generate a temporary table, so changes made to the rows by others will not be visible through the cursor. The fetch functions will allow all fetchtype values.</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor. The fetch functions will allow all fetchtype values.</td>
</tr>
</tbody>
</table>

7.4 Numeric columns and SQL Server 2000 SP4
Type Scroll Sensitive+1 Dynamic cursor The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods return always false.

Concurrency type is one of the following concurrency control options.

Concurrency type

Concurrent type

Description

Read-only cursor. You cannot modify rows in the cursor result set.

Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.

Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.

Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.
If you set the property failover=true in the JDBC URL or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or DataSource that start with failover overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

```
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500
```

To set more than one failover possibility, use the following syntax:

```
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
```

host[N] and port[N] must form pairs, otherwise they will be ignored.

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the API documentation of the PoolManager.

With the interface FailoverListener it is possible to manage the reconnection process. The FaloverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tries to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again. For more information see com.inet.pool.PoolManager.addFailoverListener(), com.inet.pool.FailoverListener, com.inet.pool.FailoverEvent and sample.MonitoredFailover
There are multiple possibilities about how to configure the Monitored Failover. It is possible to use the default implementation of the FailoverListener or to use your own implementation. The default FailoverListener is similar to the TimedFailoverListener in the samples package. To every created Connection automatically an instance of the configured FailoverListener will be added. Set a FailoverListener via Connection properties:

**Example URLs:**

jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10

For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection. example:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");

//add a FailoverListener
FailoverListener fl = new samples.MonitoredFailoverListener(99);
(TAFConnection)con.addFailoverListener(fl);
```
<span class="co1">//remove a FailoverListener</span>
<TAFConnection class="br0">con</TAFConnection>.<span class="me1">removeFailoverListener</span>(fl);

<span class="co1">//remove all FailoverListener</span>
<TAFConnection class="br0">con</TAFConnection>.<span class="me1">removeAllFailoverListener</span>();

<span class="co1">//get all registered FailoverListener</span>
FailoverListener<span class="br0">fls</span> = getFailoverListener();

<h2 id="snapshot-transaction-isolation">11. Snapshot Transaction Isolation</h2>

The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- **Modify the database**
  You can modify the database with the following SQL statement:
  `ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON`

- **initSQL**
  If you do not change the level at using of connection then you can set it at creation of the connection with:
  `initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT`  

- **Executing a statement**
  You can also change it with the following Java line:
  `conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");`

- **setTransactionIsolation**
  Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:
  `conn.setTransactionIsolation(4096);`
12. Debugging

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream(System.out)</td>
<td>This method is deprecated but it works with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(PrintWriter)</td>
<td>DriverManager.setPrintWriter(new PrintWriter(System.out))</td>
<td>work not with JDBC 1.22 driver like i-net UNA</td>
</tr>
</tbody>
</table>
| Application Server | GUI: Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC | JBoss: You can set it for every DataSource in the config file with:
| &lt;attribute name="LoggingEnabled"&gt;true&lt;/attribute&gt; |  |  |
| JDBC URL option "logging=true" | jdbc:inetdae7:localhost?logging=true | enable the logging only for connections from this DataSource |
|                                |  |  |
Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.

The latest support information are available at: http://www.inetsoftware.de/support

Support is available per email (replace at with @):

<table>
<thead>
<tr>
<th>Licensing, Pricing, Updates, ...</th>
<th>sales at inetsoftware.de</th>
</tr>
</thead>
<tbody>
<tr>
<td>i-net UNA</td>
<td>una at inetsoftware.de</td>
</tr>
<tr>
<td>i-net SPRINTA</td>
<td>sprinta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net OPTA</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net MERLIA</td>
<td>merlia at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE3</td>
<td>merlia at inetsoftware.de</td>
</tr>
</tbody>
</table>
15. Known problems

- SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int
  - possible workarounds are:
    - set integer values instead of Strings
    - use JDBC URL "jdbc:inetdae7a" - take care about no unicode support
    - set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types

- When using named pipes, setting timeout has no effect.

- When using named pipes, cancel() has no effect.

- The method getTableName() requires a cursor or the "for browse" statement.

- Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output"; and the output value is "abc       " you receive the value "abc").

- The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.

- The following methods are not supported by this release:
  - PrepareStatement.setArray (int i, Array x)
  - PrepareStatement.setRef (int i, Ref x)
  - PrepareStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-abbr-x"
<li class="level2">CallableStatement.getObject (int i, java.util.Map map)</li>
<li class="level2">CallableStatement.getRef (int i)</li>
<li class="level2">CallableStatement.Array (int i)</li>
<li class="level2">CallableStatement.getURL (int i)</li>
<li class="level2">All method with a named parameter.</li>
<li class="level2">DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)</li>
<li class="level2">DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)</li>
<li class="level2">ResultSet.getObject (int i, java.util.Map map)</li>
<li class="level2">ResultSet.getRef (int i)</li>
<li class="level2">ResultSet.Array (int i)</li>
<li class="level2">ResultSet.getURL (int i)</li>
<li class="level2">ResultSet.updateArray (int i, Array x)</li>
<li class="level2">ResultSet.updateRef (int i, Ref x)</li>
<li class="level2">All setXXX methods in Blob and Clob.</li>

<h2 id="using-ssl-connections">16. Using SSL connections</h2>
<p>If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:</p>

<ul>
<li>a server-wide certificate on the computer with the MS SQL Server 2000.</li>
</ul>
**Note:** You don’t need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

**WARNING:** After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you’ll need to add it to every ODBC client.

**WARNING:** After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you’ll need to add it to every ODBC client.

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

16.1. Create a Certificate Request

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Run the Internet Services Manager that is located in the Administrative Tools folder.

Right-click on the Default Web Site node for the server and select "Properties" from the context menu.

Click on the "Directory Security" tab.

Click on the "Server Certificate" button. A wizard should appear.

Click the "Next" button.

The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.

The "Create a new certificate" radio button should be selected. Click the "Next" button.

The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.
Click the "Next" button.

Enter your organization name and unit and click the "Next" button.

In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.

Enter your State and City. Click the "Next" button.

Accept the default file name of c:\certreq.txt and click the "Next" button.

Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

16.2. Create a Certificate with the Certificate Server

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.

Run Internet Explorer and enter the URL http://YourCertificateServer/certsrv.

Select "Request a Certificate" and click "Next".

Select "Advanced Request" and click "Next".

Select the PKCS#10 option and click "Next".

Select the PKCS#10 option and click "Next".
Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.

It will tell you the request is pending. Click on the home hyperlink at the top.

Run the Certificate Authority application that is located under Administrative Tools.

Click on Pending Requests. You will see the request that you just made in there.

Right-click on the request and select All Tasks/Issue.

Now, go back to the computer that runs the SQL Server/ IIS where you made the request from. Select the "Check on pending certificate" option and click the "Next" button.

You should see the "Saved Request Certificate" in there now. Click the "Next" button.

Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Right-click on c:\certnew.cer in Explorer and select Install from the context menu.

Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the "computer account".

Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.
This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

Start the MMC.EXE and add the Certificates snap-in for the "computer account".

Select the Certificate in the "Personal" or "Own Certificate" Folder.

Drop the Certificate.

---

16.5. Forcing Protocol Encryption

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

---

16.6 The Driver Option secureLevel

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
</tbody>
</table>
Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority.

For XA support the extended procedures was replaced with a NT-Service.

The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.

The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.

ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).

A bug with wasNull() and getXXX( x, Calendar) was fixed.

A bug with isFirst() in CachedRowSet was fixed.

A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

A bug with DTCDatasource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.
The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCPProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

A bug with CachedRowSet and setXXX was fixed. It works without clearParmeters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Method PoolManager.closeConnection(Connection) was added.

Errors in ResultSet.close() are caught now.

A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.

The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.

Connections with a read timeout are removed from the connection pool.
17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)

- The return value of supportsStatementPooling() was changed.
- A bug with a DataSource not from the JNDI and equals() was fixed.
- The method getParameterMetaData() was implemented.
- The methods setImpltran() and getImpltran() were added.
- Timestamp objects can be created (read) faster with JDK 1.4.x now.
- A NullPointerException after deserialize of a CachedRowSet was fixed.
- The method PreparedStatement.getMetaData() work also with GROUP BY now.
- Datetime formats with short month and days like '1999-5-5' are supported now.
- A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.
- The AsciiStream always sends Ascii data (also in unicode mode).
- The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.
- The call setObject( x, value, Types.BIT ) accepts numeric Strings now.
- The detecting of the default codepage of the SQL Server 2000 was changed.
- The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.
- The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.
- The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.
- The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.
<li class="level1"><div class="li"> Clob and Blob support for updateObject(..) was added.</div></li>
</div>

<li class="level1"><div class="li"> The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.</div></li>
</div>

<li class="level1"><div class="li"> CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.</div></li>
</div>

<li class="level1"><div class="li"> Support for registerOutParameter( x, Types.BOOLEAN) was added.</div></li>
</div>

<li class="level1"><div class="li"> The synchronized from Connection.close() was removed.</div></li>
</div>

</div>

<h3 id="changes-in-version-50301-merlia-20301">17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)</h3>

<ul>
<li class="level1"><div class="li"> The truncate of SP output parameter without input value on length 255 was fixed.</div></li>
</ul>


<ul>
<li class="level1"><div class="li"> Support for SSL was added.</div></li>
</ul>


<ul>
<li class="level1"><div class="li"> A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.</div></li>
<li class="level1"><div class="li"> A NullPointerException with DataSources was fixed. The bug exists since 6.00.</div></li>
<li class="level1"><div class="li"> The methods setSecureLevel() and getSecureLevel() were added.</div></li>
<li class="level1"><div class="li"> The regression that connect to MS SQL Server 6.5 fails was fixed.</div></li>
</ul>
The regression that connects to MS SQL Server with named pipes and without SSL fails was fixed.

A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.

The ClassNotFoundExption with SSL on the console with JDK 1.3 was removed.

The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.

Fixes in isAfterLast and isBeforeFirst for empty Resultsets.

A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since 5.03.01.

A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.

Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.

A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.

The wrong message "Statement.cancel:Statement is currently not running" on running Statements was removed.

The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.

The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (<abbr title="File Transfer Protocol">FTP</abbr>), 80 (HTTP) or 1521 (Oracle).

The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.

Unicode support for many DatabaseMetaData was added. Now table names,
column names, schema names with non English characters work.</li>
</ul>
</div>
<li class="level1">
<div class="li"> The methods setAppname() and getAppname() were added to the DataSources.</div>
</li>
<li class="level1">
<div class="li"> The methods setFulltran() and getFulltran() were added to the DataSources.</div>
</li>
<li class="level1">
<div class="li"> Support for the new protocol of SQLServer 2005 was added.</div>
</li>
<li class="level1">
<div class="li"> Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</div>
</li>
<li class="level1">
<div class="li"> Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</div>
</li>
<li class="level1">
<div class="li"> The property lastUpdateCount was added.</div>
</li>
<li class="level1">
<div class="li"> The sql state &quot;100029&quot; was changed to &quot;07001&quot;. It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.</div>
</li>
<li class="level1">
<div class="li"> A bug with Statement.cancel() and SSL and forceEncryption was fixed.</div>
</li>
</ul>
</div>
</div>


<ul>
<li class="level1">
<div class="li"> A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.</div>
</li>
<li class="level1">
<div class="li"> The methods of DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.</div>
</li>
<li class="level1">
<div class="li"> Some changes on the time behavior after a call of cancel() or if a query timeout occurs.</div>
</li>
<li class="level1">
<div class="li"> The timing for resolving the instance name was changed.</div>
</li>
<li class="level1">
<div class="li"> The property WSID was added.</div>
</li>
<li class="level1">
<div class="li"> The restoring of the connection after an query timeout is faster now if the MS SQL Server does not need to roll back.</div>
</li>
<li class="level1">
<div class="li"> Support for the data type BIGINT in the method updateObject(i,x) was
The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.

If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.

An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.

An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.

Connection failover was expanded to set more than one failoverhost.

Added setLogging(String) and setProperty(String) to class TdsDataSource.

The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.

Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.

The bug in DataSource overwriting the original host/port information in failover case has been fixed.

The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.

A java.lang.ArrayIndexOutOfBoundsException with DTCDatasource on XA transaction starting with a full expanded Xid was fixed. The DTCPProxy was also changed to version 1.04.
CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).

Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.

Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message "Invalid object name" had been issued by mistake.

The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.

Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

Method PoolManager.dispose() was added.

The exception "Unknown TDS packet type: 18" will not be thrown anymore.

Performance increasing: executing a prepared statement runs faster at the first execute call.

&quote;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.

The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int)

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

Reading out type money and type smallmoney from sql_variant column was fixed.

New driver property "dstsave".

Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)

Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.

Reading values from MONEY columns with getDouble() has been fixed to return correct values.

Since version 6.05 CachedRowSet.populate(ResultSet) didn't worked. This is fixed now.

There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.

An excrescent stacktrace log output was removed. (SocketException)

TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.

Since version 6.05: If a statement was already prepared, executing it as batch failed.

SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().

Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.

PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and InputStream values in addition.

since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.

since 6.04.12, prepare end execute statements didn't worked with SQL Server 7.

Multiple protocol changes to adapt driver to final SQL Sever 2005. Fix the bug with transaction
Adapted meta data requests to changes made in final SQL Server 2005.

In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.

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Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalArgumentException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.

If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.
Support for MARS was added.

Data larger as 200 MB are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

In the DTCPProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.

The warnings of getTransactionIsolation() are ignored now.

The bulk transfer limit was reduced from 200 MB to 100 MB.

A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of dstSave was changed to true.

Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.

Transaction isolation snapshot was added.
The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.

ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.

PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.

The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.

A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.

A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.

The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.

Some protocol violations with the data type XML were fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000
[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers."
<li class="level1"><div class="li"> A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.</div></li>

<li class="level1"><div class="li"> Integrated Windows Authentication for TCP/IP connections was added.</div></li>

<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.</div></li>

<li class="level1"><div class="li"> The methods getFunctions and getFunctionColumns are now implemented.</div></li>

<li class="level1"><div class="li"> The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.</div></li>


<ul>
<li class="level1"><div class="li"> Property statusRequest added.</div></li>

<li class="level1"><div class="li"> An encoding bug with the XML data type of the SQL Server 2005 was fixed.</div></li>

<li class="level1"><div class="li"> The following properties will now be respected by TdsDataSource.equals(): [appname, dtsave, fulltran, impltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].</div></li>

</ul>


<ul>
<li class="level1"><div class="li"> The error "The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly." with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.</div></li>

<li class="level1"><div class="li"> The follow SQL "SELECT {ts '2007-10-19 10:20:30.000'}" returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.</div></li>

<li class="level1"><div class="li"> A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator.".</div>

</ul>
Instances of PDataSource could not have been serialized.

Instances of PDataSource could not have been serialized.

&em;&lt;em&gt;hostProcess&lt;/em&gt; is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table &em;&lt;em&gt;sysprocesses&lt;/em&gt;. It is also used for JDBC logging.

With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000 &lt;br/&gt; [xyz2005] Could not find server &amp;#039;xyz2005&amp;#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;\</div&gt;

A NullPointerException with deserialize of the CachedRowSet was fixed.

The methods deleteRow() with the SQL Server 2005 SP2 could throw the exception &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000 &lt;br/&gt; [xyz2005] Could not find server &amp;#039;xyz2005&amp;#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;\</div&gt;

Fix a bug with Windows NT authentication and SQL Server 2005.

Connection property resultSetType added.

A fix for the message &quot;Fatal error on prepare. Connection will be closed.&quot; which occurred with mars=true and SQL Server 2005 was fixed.

The error &quot;Fatal error on prepare. Connection will be closed.&quot; which occurred with a very fast cancel() was fixed.

The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.

The error message &quot;Could not find prepared statement with handle 0.&quot; was fixed.

The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.

The method DataSource.setUrl was added.

The call ResultSet.findColumn( &quot;&quot; ) did not find empty
<li class="level1"><div class="li"> A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error &quot;Error converting data type decimal to decimal.&quot;</div></li>

<li class="level1"><div class="li"> Some error handling was added for connecting to prevent problems in stress conditions.</div></li>

<li class="level1"><div class="li"> The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.</div></li>

<li class="level1"><div class="li"> A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.</div></li>

<li class="level1"><div class="li"> There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.</div></li>
The property fastbatch was added.

A possible hanging in socket.skip() after a timeout or cancel was fixed.

An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.

Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.

The error &quot;Unknown parameter datatype:-16 - null&quot; with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.

Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.

Fixed some bugs in ParameterMetaData.

Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.

A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.

Fixed some bugs in setClientInfo(String,String) and optimized performance.

Removed the finalize() method from the Connection object.

Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception &quot;java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)&quot; on getConnection().

Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.

A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.

An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.

With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.

A memory leak in the DTCProxy was fixed.

Long-running XA transactions were rolled back after 10 minutes under very rare conditions.


Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.

Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.

Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.

Added property packetSize and changed the default from server default to 8000.

Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.

Added JDBC URL property sqlxml.

The method getClob() returned wrong data for data type VARCHAR(MAX).

Changed the default value of impltran for PDataSource to false.

A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).

A regression with ParameterMetaData note setting parameters was fixed.

An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.

A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.
<h3 id="changes-in-version-804-2-oct-2013">17.28. Changes in Version 8.04  (2. Oct 2013)</h3><ul><li class="level1">Does not use the package sun.misc.* on Java 6 and newer.</li></ul><h3 id="changes-in-version-805-9-apr-2014">17.29. Changes in Version 8.05  (9. Apr 2014)</h3><ul><li class="level1">A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached</li><li class="level1">Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</li><li class="level1">Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.</li></ul><h3 id="changes-in-version-806-15-apr-2015">17.30. Changes in Version 8.06  (15. Apr 2015)</h3><ul><li class="level1">Added support for VNN (virtual network names) together with instance names.</li><li class="level1">Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.</li><li class="level1">No longer write the password to the driver log.</li><li class="level1">Add the interface NtlmHandshake to support an external NTLM login source.</li></ul><h2 id="copyright">18. Copyright</h2>
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src/plugin/parse-pdf/lib/JempBox-0.2.0.jar

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src/plugin/parse-pdf/lib/bcprov-jdk14-132.jar

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src/plugin/lib-xml/lib/jdom.jar

/*--
$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp $

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*/

src/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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*/

src/plugin/lib-xml/lib/saxpath.jar

/**

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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src/plugin/lib-xml/lib/xercesImpl.jar

ASF

XOM is a dual streaming/tree-based API for processing XML with Java.

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5.325 jbossweb 4.2.3.GA

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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113/java-binding.html

The original versions are tagged 'DOM_LEVEL_2'

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/
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libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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.

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 compile 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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) 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.

c) 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.

d) 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 source code 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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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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,
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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
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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.)

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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.

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* Documentation Location
* Third-Party Component Notices

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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

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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library


creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
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which the executable runs, unless that component itself accompanies

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It may happen that this requirement contradicts the license

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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
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, 1 April 1990
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*******************************************************************
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freemarker/ext/jsp/web-app_2_2.dtd
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freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd

Historical notes

FreeMarker 1.x was released under the LGPL license. Later, by community consensus, we have switched over to a BSD-style license. As of FreeMarker 2.2pre1, the original author, Benjamin Geer, has relinquished the copyright in behalf of Visigoth Software Society.

With FreeMarker 2.3.21 the license has changed to Apache License, Version 2.0, and the owner has changed from Visigoth Software Society to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel Dekany, and Jonathan Revusky.

1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

    java.lang.NullPointerException
    at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
    at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
    at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
    at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
    ...

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release
You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...
  <servers>
    ...
    <server>
      <id>jboss-developer</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server>
      <id>jboss-snapshots</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    <server>
      <id>jboss-releases</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>
    ...
  </servers>
  ...
</settings>
```

1.3. Deploying a release to a live repository
----------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus
After verifying the POM and the artifacts in Nexus, you can then close the repository and push the relase live.

2. TESTING
============

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------
* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------
The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, ike so:

$ mvn surefire-report:report-only

2.3. Executing different groups
-------------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test
2.4. Executing a single test
----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/*/ test

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run. To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other
2.8. Running permutations manually or in an IDE
-----------------------------------------------

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson
---------------------------------------------

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

1. WORKING WITH MAVEN
=========================

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* Java 5.0 and above
* Maven 2.0.8 and above

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-------------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

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</server>
<server>
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  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-releases</id>
  <username>jboss.org username</username>
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...

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2.8. Running permutations manually or in an IDE
-----------------------------------------------
Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

- Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

- Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

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* Documentation Location
* Third-Party Component Notices

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above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free

programs enables a greater number of people to use a large body of

free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating

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system.

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Although the Lesser General Public License is Less protective of the

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users' freedom, it does ensure that the user of a program that is

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linked with the Library has the freedom and the wherewithal to run

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that program using a modified version of the Library.

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The precise terms and conditions for copying, distribution and

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modification follow. Pay close attention to the difference between a

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"work based on the library" and a "work that uses the library". The

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former contains code derived from the library, whereas the latter must

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be combined with the library in order to run.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(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
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root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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Otherwise, if the work is a derivative of the Library, you may
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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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b) Use a suitable shared library mechanism for linking with the
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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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
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You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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
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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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Preamble

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freedom to share and change it. By contrast, the GNU General Public

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary
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the library.

We call this license the "Lesser" General Public License because it
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(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
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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

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

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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or

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Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

Version: 8.06
Last Modified: 15. Apr 2015

1. Installation

1.1 Using the Driver in a Java Application

1.2 Using the Driver in an Applet
Using the Driver in an Applet</li><span class="li"><a href="#getting-started" class="inlinetoc">2. Getting Started</a></span></li></ul></li><ul class="inlinetoc"><li class="level1"><div class="li"><span class="li"><a href="#sql-server-java-and-jdbc-versions" class="inlinetoc">2.1 SQL Server, Java and JDBC Versions</a></div></li><li class="level1"><div class="li"><span class="li"><a href="#implemented-features" class="inlinetoc">2.2 Implemented Features</a></div></li><li class="level1"><div class="li"><span class="li"><a href="#check-host-name-and-port-number-of-your-server" class="inlinetoc">2.3. Check Host Name and Port Number of Your Server</a></div></li><ul class="inlinetoc"><li class="level2"><div class="li"><span class="li"><a href="#for-microsoft-sql-server-65" class="inlinetoc">For Microsoft SQL Server 6.5:</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#for-microsoft-sql-server-70" class="inlinetoc">For Microsoft SQL Server 7.0:</a></div></li></ul><li class="level2"><div class="li"><span class="li"><a href="#login-types" class="inlinetoc">2.4 Login Types</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#driver-class-name" class="inlinetoc">2.5 Driver Class Name</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#jdbc-url-subprotocols" class="inlinetoc">2.6 JDBC URL Subprotocols</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#jdbc-url-syntax-of-the-driver" class="inlinetoc">2.7 JDBC URL Syntax of the driver</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#jdbc-url-syntax-of-the-pooled-driver" class="inlinetoc">2.8 JDBC URL Syntax of the Pooled Driver</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#implemented-driver-properties" class="inlinetoc">2.9 Implemented Driver Properties</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#connections-to-the-msde-2000-release-a" class="inlinetoc">2.10 Connections to the MSDE 2000 Release A</a></div></li><li class="level2"><div class="li"><span class="li"><a href="#connection-examples" class="inlinetoc">2.11 Connection Examples</a></div></li></ul>
16.4. Uninstalling a Certificate

16.5. Forcing Protocol Encryption

16.6 The Driver Option secureLevel

17. Changes

17.1 Changes in Version 5.00 (MERLIA 2.00)  (9. Dec 2002)

17.2 Changes in Version 5.01 (MERLIA 2.01)  (5. Feb 2003)

17.3 Changes in Version 5.02 (MERLIA 2.02)  (8. May 2003)

17.4 Changes in Version 5.03 (MERLIA 2.03)  (4. Nov 2004)

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)


17.7. Changes in Version 6.01  (1. Apr 2004)


The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.
Add the driver jar file to the archive attribute of the applet tag, e.g.:

```html
&lt;APPLET CODE="..." Codebase="..." ARCHIVE="..."&gt;
...&lt;/APPLET&gt;
```

or extract the jar in the directory of the applet.

```
2. Getting Started
```

```
2.1 SQL Server, Java and JDBC Versions
```

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA</td>
<td>1.1</td>
<td>1.22</td>
</tr>
<tr>
<td>SPRINTA</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>OPTA</td>
<td>1.2</td>
<td>2.0 + Optional Package</td>
</tr>
</tbody>
</table>

```
All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2000
- Microsoft SQL Server 7.0
- Microsoft SQL Server 6.5

with all Service Packs (32 bit / 64 bit)
<table>
<thead>
<tr>
<th>Feature</th>
<th>&lt;col0&gt; Connection Pooling &lt;/td&gt;</th>
<th>&lt;col1&gt; - &lt;/td&gt;</th>
<th>&lt;col2&gt; - &lt;/td&gt;</th>
<th>&lt;col3&gt; Yes &lt;/td&gt;</th>
<th>&lt;col4&gt; Yes &lt;/td&gt;</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; DataSource &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
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<td>&lt;tr class=&quot;row6&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; Pooled Driver with Internal Pooling &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tr class=&quot;row7&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; Pool Manager i-net PLEXA &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tr class=&quot;row8&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; JDBCRowSet &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tr class=&quot;row9&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; Distributed Transactions (XA) &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tr class=&quot;row10&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; SSL &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
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<td>&lt;tr class=&quot;row11&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; Savepoints on Transactions &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tr class=&quot;row12&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; Multiple Open ResultSets per Statement &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;tr class=&quot;row13&quot;&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;td class=&quot;col0&quot;&gt; ResultSet Holdability &lt;/td&gt;</td>
<td></td>
<td></td>
<td>Yes &lt;/td&gt;</td>
<td>Yes &lt;/td&gt;</td>
</tr>
</tbody>
</table>

A more complete list can be found at: http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features.
2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

telnet <span class="sy0">hostname</span> or <span class="sy0">ip</span> address <span class="sy0">port number</span>
If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications

Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you'll need to use an SQL Server login, in which case you'll need to enable SQL Server authentication or Mixed authentication. To verify the authentication type:

- Select the SQL Server in the Enterprise Manager
- Open the properties dialog
- Select the security tab

If you want to use Windows NT authentication with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.
The class name of the driver is: <strong>com.inet.tds.TdsDriver</strong>

The name of the pooled driver is: <strong>com.inet.pool.PoolDriver</strong>
The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA

<table>
<thead>
<tr>
<th>DataSources</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.inet.tds.TdsDataSource</td>
<td>This is a simple DataSource. Also named JDBC 1 DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.PDataSource</td>
<td>This is pooled DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.DTCDataSource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCPProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>

For a list of DataSource Properties look in the API documentation.

<h3 id="jdbc-url-subprotocols">2.6 JDBC URL Subprotocols</h3>

<table>
<thead>
<tr>
<th>Subprotocols</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:</td>
<td>support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as &amp;sql7=true)</td>
</tr>
<tr>
<td>jdbc:inetdae7a:</td>
<td>ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 compliance is required.</td>
</tr>
</tbody>
</table>
API" class="wikilink1">see character converting JDBC 4.0 API</a> </td>
</tr>
<tr class="row2">
<td class="col0"> jdbc:inetdae6: .... </td><td class="col1"> SQL Server 6.5 compatible mode (passwords are transfered plainly) </td>
</tr>
<tr class="row3">
<td class="col0"> jdbc:inetdae: .... </td><td class="col1"> only for compatibility with older versions </td>
</tr>
<tr class="row4">
<td class="col0"> jdbc:inetpool: .... </td><td class="col1"> pooled driver (only OPTA and MERLIA) </td>
</tr>
</table></div>

<h3 id="jdbc-url-syntax-of-the-driver">2.7 JDBC URL Syntax of the driver</h3>
<div class="level3">
<div class="table ">
<table class="inline">
<tr class="row0">
<td class="col0"> jdbc:inetdae7:hostname:portnumber </td><td class="col1 leftalign">  </td>
</tr>
<tr class="row1">
<td class="col0"> jdbc:inetdae7:hostname </td><td class="col1"> >&gt; with default port 1433 </td>
</tr>
<tr class="row2">
<td class="col0"> jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english </td><td class="col1"> >&gt; with properties </td>
</tr>
<tr class="row3">
<td class="col0"> jdbc:inetdae7:hostname/instancename </td><td class="col1"> >&gt; with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434 </td>
</tr>
<tr class="row4">
<td class="col0"> jdbc:inetdae7:<em>servername/pipe/pipename | &gt; with named pipes | </em>jdbc:inetdae7:/em>servername/pipe/MSSQL$instancename/sql/query </td><td class="col1"> &gt; named instance </td>
</tr>
</table></div>

<h3 id="jdbc-url-syntax-of-the-pooled-driver">2.8 JDBC URL Syntax of the Pooled Driver</h3>
<div class="level3">
<p>
The pooled driver is only part of OPTA and MERLIA.</p>
</div>
Examples:

- jdbc:inetpool:inetdae7:www.inetsoftware.de:1433
- jdbc:inetpool:inetdae7:localHost:1433
- jdbc:inetdae7:210.1.164.19:1433
- jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433
- jdbc:inetpool:jdbc:inetdae7:localHost:1433

### 2.9 Implemented Driver Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>database</td>
<td>default is the user default database</td>
</tr>
<tr>
<td>language</td>
<td>default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td>user</td>
<td>the database user, if empty the current windows user is used</td>
</tr>
<tr>
<td><strong>password</strong></td>
<td>password of the database user</td>
</tr>
<tr>
<td><strong>charset</strong></td>
<td>see Character Converting</td>
</tr>
<tr>
<td><strong>initSQL</strong></td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td><strong>nowarnings</strong></td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td><strong>logging</strong></td>
<td>default is &quot;false&quot; If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.</td>
</tr>
<tr>
<td><strong>sql7</strong></td>
<td>default is &quot;false&quot; with &quot;inetdae&quot;&quot;true&quot; the new datatypes are supported this property works only with the classic subprotocol &quot;inetdae&quot;</td>
</tr>
<tr>
<td><strong>secureLevel</strong></td>
<td>default is 1; set the level of security with SSL.</td>
</tr>
<tr>
<td><strong>prepare</strong></td>
<td>default is &quot;true&quot;, PreparedStatements are prepared on the SQL Server.</td>
</tr>
<tr>
<td>Name</td>
<td>Default Value</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>default is 60</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is &quot;true&quot;</td>
</tr>
<tr>
<td>appname</td>
<td>Application name (only Application and Enterprise licenses)</td>
</tr>
<tr>
<td>WSID</td>
<td>Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().</td>
</tr>
<tr>
<td>useCursorsAlways</td>
<td>default is &quot;false&quot;</td>
</tr>
</tbody>
</table>
resultSetType: default is "1003" (ResultSet.TYPE_FORWARD_ONLY). A list of valid values can be found in chapter "Scrolling Cursor Types".

useInsteadOfTrigger: default is "false". "true" - in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger.

impltran: with Driver the default is "true" for compatibility with the JDBC-ODBC bridge. with DataSource the default is "false" to reduce deadlock problems. If the value is true then the method setTransactionIsolation() will call setAutoCommit(false) implicitly and start a transaction.

fulltran: default is "true", creates always a transaction with setAutoCommit(false); "false" only if needed. With the option fulltran=true the method setAutoCommit() uses BEGIN TRAN and COMMIT TRAN. If the flag auto commit is set then there will always be a running transaction. With fulltran=false the method setAutoCommit() uses SET IMPLICIT_TRANSACTIONS ON and SET IMPLICIT_TRANSACTIONS OFF. If the flag auto commit is set then the transactions will only start if needed. More information on these SQL expressions and their behaviour can be found in the MSSQL Server Online Manual.

dstsave: default is true. Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.

statusRequest: Set the mode with which the API requests the status of a connection. There are 2 possible modes:
   * safe (default) - an additional round trip to the database is executed. 
   * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel() 

fastbatch: default is true. Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>fetchsize</code></td>
<td>i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr>
<td><code>host</code></td>
<td>override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property <code>instance</code>.</td>
</tr>
<tr>
<td><code>instance</code></td>
<td>override the value in the JDBC URL. Required the UDP port 1434 for failover.</td>
</tr>
<tr>
<td><code>port</code></td>
<td>override the value in the JDBC URL. Required the UDP port 1434 for failover.</td>
</tr>
<tr>
<td><code>failover</code></td>
<td>see chapter <code>getConnection()</code> for detail.</td>
</tr>
<tr>
<td><code>mars</code></td>
<td>Enables (<code>true</code>) or disables (<code>false</code>) the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.</td>
</tr>
<tr>
<td><code>packetSize</code></td>
<td>Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.</td>
</tr>
<tr>
<td><code>mode</code></td>
<td>Only for DataSources. The value is equals to the JDBC sub protocol. See the API documentation for more details.</td>
</tr>
<tr>
<td><code>typeMapping</code></td>
<td>default is jdbc4. Which data type constant should be used from the driver. Available options are <code>jdbc3</code>, <code>jdbc4</code> and <code>odbc</code>. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.</td>
</tr>
</tbody>
</table>
| `sqlxml` | default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.
there are three ways to put the properties to the driver:
</p>

<ol>
  <li>call method getConnection(String url, Properties info) from the driver manager.</li>
  <li>create a DataSource and set the properties with the set methods.</li>
</ol>

<h3>2.10 Connections to the MSDE 2000 Release A</h3>

You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

Comments of the switches:

- **SAPWD="password"**
  Set the password for the sa account. This is required for Windows Server 2003.

- **SECURITYMODE=SQL**
  Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non Windows program like Java.

- **DISABLENETWORKPROTOCOLS=0**
  Enable the TCP/IP protocol

Eight examples are included in the download file.
An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)

This example shows the use of the PoolDriver. A driver with internal connection pooling.

How to create a connection with a datasource.

How to use the PooledConnection of the driver.

This demonstrates the use of the PoolManager i-net PLEXA&amp;#8482; i-net PLEXA&amp;#8482; is an example of a pool manager. i-net PLEXAtm) comes with i-net OPTA&amp;#8482;.
How to use the JDBCRowSet from i-net software (i-net OPTA™).

This demonstrates the use of a DataSource with a JNDI directory.

This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA™).

A sample with EJB and a XADataSource.

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the
client or you must install NFS (network file system) on the SQL server.
</p>

<p>
The default pipe of the SQL server is "sql/query", but you can change this pipe name in the server network manager.
</p>

</div>

<h2 id="escape-clauses">4. Escape Clauses</h2>

<p>
The driver implements all escape clauses as follows:
</p>

</div>

<h3 id="date-and-time">4.1 Date and Time</h3>

<pre class="code">{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}</pre>

<h3 id="stored-procedures">4.2 Stored Procedures</h3>

<pre class="code">{call storedProcedures('Param1'|'Param2'|...)}
{? = call storedProcedures('Param1'|'Param2'|...)}</pre>

<code>examples:
</code>

<pre class="code java">st = con.createStatement();
st.execute("{call MyProc('value')}");

pr = con.prepareStatement("{call MyProc('value')}");
pr.execute();

pr = con.prepareStatement("{call MyProc( ? )}");
pr.execute();
</pre>
4.3 Functions

Numeric Functions

<pre class="code">{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}</pre>

Time and Date Functions

<pre class="code">{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn SECOND(datetime)}
{fn TIME(datetime)}
{fn TIMESTAMP(datetime)}
{fnToFileTime(datetime)}
{fn TOadin(datetime)}
{fn YEAR(datetime)}</pre>
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPADD(interval, datetime, datetime2)}</pre>

<p>
interval may be one of the following:
</p><p>
<pre class="code">SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR</pre>
</p>

<h3 id="outer-join">4.4 Outer Join</h3>
<div class="level3">
<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>
</div>

<h3 id="encrypt">4.5 Encrypt</h3>
<div class="level3">
<pre class="code">{encrypt N"password"}</pre>
</div>

<h2 id="character-converting">5. Character Converting</h2>
<div class="level2">
<p>
By default character converting is disabled. To use character converting in the driver you need to append "charset=YourCharSet" to the url.
</p>
</div>

<p>
for example: "jdbc:inetdae:localhost:1433?charset=Cp1250"</p>
or &quot;jdbc:inetdae=localhost:1433?charset=&quot; +
sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();

or &quot;jdbc:inetdae=localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;);

or &quot;jdbc:inetdae=localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();

TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.

You can test the availability of a character set with:

&quot;test string&quot;.getBytes( charset );

If this line executes correctly the character set is available in the current VM.

The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with these columns you need to use the character N.

Example: &quot;INSERT INTO myTable(ntext field) VALUES( N'national text' )&quot;

5.1 JDBC 4.0 API

JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. PreparedStatement.setNString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support ASCII characters only. If you need this compatibility then you have to use &quot;inetdae7a&quot; subprotocol.

If you want all String setter functions support unicode characters, use &quot;inetdae7&quot; subprotocol.

6. New Datatypes

The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.

You can use the new datatypes if you use the jdbc url &quot;jdbc:inetdae7:...&quot; or set the property sql7=true.
If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.

SQL Server 2005 supports the following new data types:

SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

- Varchar(max)
- NVarchar(max)
Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of the SQL Server 2005(Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- DATE
- TIME
- DATETIME2
- DATETIMEOFFSET

The other new data types:

- GEOGRAPHY
- GEOMETRY
- HIERARCHYID
are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

7. PreparedStatement Performance and Data Type Mapping

7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the data type precedence rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:

- `sql_variant` (highest)
- `datetime`
- `smalldatetime`
- `float`
- `real`
- `decimal`
- `money`
- `smallmoney`
- `bigint`
- `int`
- `smallint`
- `tinyint`
7.2 Data Type Mapping

If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>Method</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>------------</td>
<td>------------------------</td>
</tr>
<tr>
<td><code>setInt</code></td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td><code>setLong</code></td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td><code>setFloat</code></td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td><code>setDouble</code></td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td><code>setBigDecimal</code></td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td><code>setString</code></td>
<td>NVARCHAR</td>
<td>&gt; 4000 NTEXT</td>
</tr>
<tr>
<td></td>
<td>VARCHAR</td>
<td>&gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setAsciiStream</code></td>
<td></td>
<td>&gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setClob</code></td>
<td>NVARCHAR</td>
<td>&gt; 4000 NTEXT</td>
</tr>
<tr>
<td></td>
<td>VARCHAR</td>
<td>&gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setCharacterStream</code></td>
<td></td>
<td>&gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setDate</code></td>
<td>DATETIME</td>
<td>..</td>
</tr>
<tr>
<td><code>setTime</code></td>
<td>DATETIME</td>
<td>..</td>
</tr>
<tr>
<td><code>setTimestamp</code></td>
<td>DATETIME</td>
<td>..</td>
</tr>
<tr>
<td><code>setBytes</code></td>
<td>VARBINARY</td>
<td>&gt; 8000 – IMAGE</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td>..</td>
</tr>
</tbody>
</table>
If you use a set method that maps to a data type with a higher precedence, then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server cannot use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case, the MS SQL Server can detect that it can convert downward the static parameter.

**Solutions:**

1.) Use the correct set method.

2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:

   ... cast(? as TINYINT)

3.) Change the data type of the table.

BigDecimal parameter sent by driver will be processed up to 20% slower. This happens if parameter definition sent by Driver don't match exactly the column type. For example, Driver sends parameter as

   &quot;decimal(38,36)&quot;,

   the column type is &quot;numeric (7,0)&quot;. It seems that the index for the
numeric column won't used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. "select * from testnumeric where a = CAST(? AS numeric(7,0))"

8. Scrolling Cursor Types

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward forward only cursor with activated optimisation.</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>Insensitive keyset cursor Use a concurrency of CONCUR_READ_ONLY. SQL Server will generate a temporary table, so changes made to the rows by others will not be visible through the cursor. The fetch functions will allow all fetchtype values.</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor The fetch functions will allow all fetchtype values.</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE+1</td>
<td>Dynamic cursor The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods returns always false.</td>
</tr>
</tbody>
</table>

9. Locking and Concurrency Control

Concurrency type is one of the following concurrency control options.
<table>
<thead>
<tr>
<th>concurrency type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCUR_READ_ONLY</td>
<td>Read-only cursor. You cannot modify rows in the cursor result set.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE</td>
<td>Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+1</td>
<td>Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+2</td>
<td>Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.</td>
</tr>
</tbody>
</table>

If you set the property failover=true in the JDBC URL or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or DataSource that start with "failover" overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:
```
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500
```

To set more than one failover possibility, use the following syntax:
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
host[N] and port[N] must form pairs, otherwise they will be ignored.

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the <abbr title="Application Programming Interface">API</abbr> documentation of the PoolManager.

With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tries to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again. For more information see com.inet.pool.PoolManager.addFailoverListener(), com.inet.pool.FailoverListener, com.inet.pool.FailoverEvent and sample.MonitorFailover.

There are multiple possibilities about how to configure the Monitored Failover. It is possible to use the default implementation of the FailoverListener or to use your own implementation. The default FailoverListener is similar to the TimedFailoverListener in the samples package.

To every created Connection automatically an instance of the configured FailoverListener will be added.

Set a FailoverListener via Connection properties:
<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
<tr>
<td>failoverListener</td>
<td>-</td>
<td>the class name of your own FailoverListener implementation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection.</td>
</tr>
</tbody>
</table>

Example URLs:
jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10

For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

- com.inet.pool.PoolDriver
- com.inet.ora.PDataSource
- com.inet.tds.PDataSource
- com.inet.syb.PDataSource
The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection. Example:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");

//add a FailoverListener
FailoverListener fl = new samples.MonitoredFailover.CounteredFailoverListener(99);
(TAFConnection con).addFailoverListener(fl);

//remove a FailoverListener
(TAFConnection con).removeFailoverListener(fl);

//remove all FailoverListener
(TAFConnection con).removeAllFailoverListener();

//get all registered FailoverListener
FailoverListener fls = getFailoverListener();
```
11. Snapshot Transaction Isolation

The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- **Modify the database**
  
  You can modify the database with the following SQL statement:
  
  ```
  ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON
  ```

- **initSQL**
  
  If you do not change the level at using of connection then you can set it at creation of the connection with:
  
  ```
  initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
  ```

- **Executing a statement**
  
  You can also change it with the following Java line:
  
  ```
  conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");
  ```

- **setTransactionIsolation**
  
  Since version 6.08.04 you can also set it via API with:
  
  ```
  conn.setTransactionIsolation(4096);
  ```

12. Debugging

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

- **Solutions**
  - **examples**
  - **Comments**
<tr class="row1">
<td class="col0">DriverManager.setLogStream(PrintStream) </td><td class="col1">
DriverManager.setLogStream( System.out );DriverManager.setLogStream( new FileOutputStream("c:\;\driver.log");
</td><td class="col2">This method is deprecated but it works with all JDBC drivers. </td>
</tr>

<tr class="row2">
<td class="col0">DriverManager.setPrintWriter(PrintWriter) </td><td class="col1">DriverManager.setPrintWriter( new PrintWriter( System.out ) )</td><td class="col2">work not with JDBC 1.22 
driver like i-net UNA </td>
</tr>

<tr class="row3">
<td class="col0">Application Server <abbr title="Graphical User Interface">GUI</abbr> </td><td class="col1">WebLogic:</strong> Enable the JDBC logging in the server console on the node 
servers/myserver/logging/JDBC<br/>
....
</td><td class="col2 leftalign"> </td>
</tr>

<tr class="row4">
<td class="col0">myDataSource.setPrintWriter(PrintWriter) </td><td class="col1">myDataSource.setPrintWriter( 
new PrintWriter( System.out ) )</td><td class="col2">enable the logging only for connections from this 
DataSource </td>
</tr>

<tr class="row5">
<td class="col0">JDBC <abbr title="Uniform Resource Locator">URL</abbr> option "logging=true" </td><td class="col1">jdbc:inetdae7:localhost?logging=true </td><td class="col2 leftalign"> </td>
</tr>

<h2 id="support">13. Support</h2>

<p>Before you ask our support staff for assistance please check out our <a href="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm" class="urlextern" target="_blank" title="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm">FAQ</a>. Thank you very much for your 
collaboration.</p>

<p>The latest support information are available at: <a href="http://www.inetsoftware.de/support" class="urlextern" target="_blank" title="http://www.inetsoftware.de/support">http://www.inetsoftware.de/support</a>
</p>
Support is available per email (replace at with @):

<p></p>

<table class="inline">
<tr class="row0">
<td class="col0"> Licensing, Pricing, Updates, ... </td>
<td class="col1"> sales at inetsoftware.de </td>
</tr>
<tr class="row1">
<td class="col0"> i-net UNA </td>
<td class="col1"> una at inetsoftware.de </td>
</tr>
<tr class="row2">
<td class="col0"> i-net SPRINTA </td>
<td class="col1"> sprinta at inetsoftware.de </td>
</tr>
<tr class="row3">
<td class="col0"> i-net OPTA </td>
<td class="col1"> opta at inetsoftware.de </td>
</tr>
<tr class="row4">
<td class="col0"> i-net MERLIA </td>
<td class="col1"> merlia at inetsoftware.de </td>
</tr>
<tr class="row5">
<td class="col0"> i-net GATE </td>
<td class="col1"> opta at inetsoftware.de </td>
</tr>
<tr class="row6">
<td class="col0"> i-net GATE3 </td>
<td class="col1"> merlia at inetsoftware.de </td>
</tr>
</table>

<p></p>

<h2 id="documentation">14. Documentation</h2>

<p>You can find more documentation at:<br/>

<h2 id="known-problems">15. Known problems</h2>

<ul>
<li class="level1"> SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int<br/>
possible workarounds are:</li>
</ul>

set integer values instead of Strings

use JDBC URL "jdbc:inetdae7a" - take care about no unicode support

set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types

When using named pipes, setting timeout has no effect.

When using named pipes, cancel() has no effect.

The method getTableName() requires a cursor or the "for browse" statement.

Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output" and the output value is "abc &quot; you receive the value "abc".)

The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.

The following methods are not supported by this release:

- `PrepareStatement.setArray (int i, Array x)`
- `PrepareStatement.setRef (int i, Ref x)`
- `PrepareStatement.setURL("int-i-abbr-title-Uniform-Resource-Locator-URL-abbr-x")`
- `CallableStatement.getObject (int i, java.util.Map map)`
- `CallableStatement.getRef (int i)`
- `CallableStatement.getArray (int i)`
- `CallableStatement.getURL("int-i")`
- All method with a named parameter.
- `DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)`
- `DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)"
16. Using SSL connections

If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

- a server-wide certificate on the computer with the MS SQL Server 2000.

**Note:** You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

**WARNING**: After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

- the JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.
SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

16.1. Create a Certificate Request

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

- Run the Internet Services Manager that is located in the Administrative Tools folder.
- Right-click on the Default Web Site node for the server and select "Properties" from the context menu.
- Click on the "Directory Security" tab.
- Click on the "Server Certificate" button. A wizard should appear.
- Click the "Next" button.
- The "Create a new certificate" radio button should be selected. Click the "Next" button.
- The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.
- Click the "Next" button.
- Enter your organization name and unit and click the "Next" button.
- In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.
- Enter your State and City. Click the "Next" button.
- Accept the default file name of c:\certreq.txt and click the "Next" button.
- Click the Next button, then click Finish.
This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

- Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.
- Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.
- Select "Request a Certificate" and click "Next".
- Select "Advanced Request" and click "Next".
- Select the PKCS#10 option and click "Next".
- Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.
- It will tell you the request is pending. Click on the home hyperlink at the top.
- Run the Certificate Authority application that is located under Administrative Tools.
- Click on Pending Requests. You'll see the request that you just made in there.
- Right-click on the request and select All Tasks/Issue.
- Now, go back to the computer that runs the SQL Server/IIS where you made the
request from. Select the &quot;Check on pending certificate&quot; option and click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> You should see the &quot;Saved-Request Certificate&quot; in there now. Click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.</div>
</li>
</ul>
</div>

<h3 id="installing-a-certificate">16.3. Installing a Certificate</h3>
<div class="level3">
<p>This is only needed for SQL Server 2000. This is not required for SQL Server 2005.</p>
<ul>
<li class="level1"><div class="li"> Right-click on c:\certnew.cer in Explorer and select Install from the context menu.</div>
</li>
<li class="level1"><div class="li"> Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the &quot;computer account&quot;.</div>
</li>
</ul>
</div>

<h3 id="uninstalling-a-certificate">16.4. Uninstalling a Certificate</h3>
<div class="level3">
<p>This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.</p>
<ul>
<li class="level1"><div class="li"> Start the MMC.EXE and add the Certificates snap-in for the &quot;computer account&quot;.</div>
</li>
<li class="level1"><div class="li"> Select the Certificate in the &quot;Personal&quot; or &quot;Own Certificate&quot; Folder</div>
</li>
<li class="level1"><div class="li"> Drop the Certificate</div>
</li>
</ul>
</div>
16.5. Forcing Protocol Encryption

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

16.6 The Driver Option secureLevel

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1</td>
<td>(default) Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
<tr>
<td>3</td>
<td>Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</td>
</tr>
</tbody>
</table>

17. Changes

17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)
For XA support the extended procedures was replaced with a NT-Service.

The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.

The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.

ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).

A bug with wasNull() and getXXX( x, Calendar) was fixed.

A bug with isFirst() in CachedRowSet was fixed.

A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error &quot;Disallowed implicit conversion ...&quot; with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.
17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)

- A bug with CachedRowSet and setXXX was fixed. It works without clearParmeters() now.
- A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money;..
- A dead-lock that could occur in PoolManager.closeAll() was fixed.
- The error "Cookie from MSDTC is null" was fixed.
- A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.
- Method PoolManager.closeConnection(Connection) was added.
- Errors in ResultSet.close() are caught now.
- A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.
- The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.
- Connections with a read timeout are removed from the connection pool.

17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)

- The return value of supportsStatementPooling() was changed.
- A bug with a DataSource not from the JNDI and equals() was fixed.
- The method getParameterMetaData() was implemented.
- The methods setImpltran() and getImpltran() were added.
- Timestamp objects can be created (read) faster with JDK 1.4.x now.
A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.

Datetime formats with short month and days like '1999-5-5' are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.

The AsciiStream always sends Ascii data (also in unicode mode).

The error 'Unknown parameter datatype:-12347' with setUnicodeStream and server site PreparedStatement was fixed.

The call setObject( x, value, Types.BIT ) accepts numeric Strings now.

The detecting of the default codepage of the SQL Server 2000 was changed.

The error 'Unknown output datatype:2004' with updateBlob(String,Blob) was fixed.

The error 'Unknown output datatype:2005' with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter( x, Types.BOOLEAN) was added.

The synchrononized from Connection.close() was removed.
17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)

The truncate of SP output parameter without input value on length 255 was fixed.


Support for SSL was added.

17.7 Changes in Version 6.01 (1. Apr 2004)

A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.

A NullPointerException with DataSources was fixed. The bug exists since 6.00.

The methods setSecureLevel() and getSecureLevel() were added.

The regression that connect to MS SQL Server 6.5 fails was fixed.

The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.

A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.

The ClassNotFoundExption withh SSL on the console with JDK 1.3 was removed.

The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.

Fixes in isAfterLast and isBeforeFirst for empty Resultsets

A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since
5.03.01.</div>
</li>
<li class="level1"><div class="li"> A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.</div>
</li>
<li class="level1"><div class="li"> A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.</div>
</li>
<li class="level1"><div class="li"> The wrong message "Statement.cancel: Statement is currently not running" on running Statements was removed.</div>
</li>
<li class="level1"><div class="li"> The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.</div>
</li>
<li class="level1"><div class="li"> The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (FTP), 80 (HTTP) or 1521 (Oracle).</div>
</li>
<li class="level1"><div class="li"> The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.</div>
</li>
<li class="level1"><div class="li"> Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.</div>
</li>
<li class="level1"><div class="li"> The methods setAppname() and getAppname() were added to the DataSources.</div>
</li>
<li class="level1"><div class="li"> The methods setFulltran() and getFulltran() were added to the DataSources.</div>
</li>
<li class="level1"><div class="li"> Support for the new protocol of SQLServer 2005 was added.</div>
</li>
<li class="level1"><div class="li"> Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</div>
</li>
<li class="level1"><div class="li"> Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</div>
</li>
</ul>
</div>
The property lastUpdateCount was added.

The sql state "100029" was changed to "07001". It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.

A bug with Statement.cancel() and SSL and forceEncryption was fixed.

A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.

The methods of DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.

Some changes on the time behavior after a call of cancel() or if a query timeout occurs.

The timing for resolving the instance name was changed.

The property WSID was added.

The restoring of the connection after an query timeout is faster now if the MS SQL Server does not need to roll back.

Support for the data type BIGINT in the method updateObject(i,x) was added.

The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.

If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.

An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.

An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.

- Connection failover was expanded to set more than one failoverhost.

- Added setLogging(String) and setProperty(String) to class TdsDataSource.

- The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.


- Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.

- The bug in DataSource overwriting the original host/port information in failover case has been fixed.

- The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.

- A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.

- CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).

- Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.

- Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message &quot;Invalid object name&quot; had been issued by mistake.

- The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

- Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.
Support for setting an IPv6 address as a host name. Sample JDBC URL:
jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

Method PoolManager.dispose() was added.

The exception "Unknown TDS packet type: 18" will not be thrown anymore.

Performance increasing: executing a prepared statement runs faster at the first execute call.

&quote;Create View ...&quote; and &quote;Create Procedure ...&quote; executed as PreparedStatement now works with SQL Server 2005.

The ResultSet created by Statement.executeQuery() now is from the type defined with Connection.createStatement(int,int)

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

Reading out type money and type smallmoney from sql_variant column was fixed.

New driver property &quot;dstsave&quot;.

Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)

Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.

Reading NULL values from MONEY columns with getDouble() has been fixed to return correct values.
<li class="level1"><div class="li"> Since version 6.05 CachedRowSet.populate(ResultSet) didn’t work. This is fixed now.</div></li>

<li class="level1"><div class="li"> There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.</div></li>

<li class="level1"><div class="li"> An excescent stacktrace log output was removed. (SocketException)</div></li>

<li class="level1"><div class="li"> TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.</div></li>

<li class="level1"><div class="li"> Since version 6.05: If a statement was already prepared, executing it as batch failed.</div></li>

<li class="level1"><div class="li"> SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().</div></li>

<li class="level1"><div class="li"> Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.</div></li>

<li class="level1"><div class="li"> PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[], String and InputStream values in addition.</div></li>

<li class="level1"><div class="li"> since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.</div></li>

<li class="level1"><div class="li"> since 6.04.12, prepare end execute statements didn’t work with SQL Server 7.</div></li>

<li class="level1"><div class="li"> Multiple protocol changes to adapt driver to final SQL Sever 2005. Fix the bug with transaction.</div></li>

<li class="level1"><div class="li"> Adapted meta data requests to changes made in final SQL Server 2005.</div></li>

<li class="level1"><div class="li"> In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.</div></li>
Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set "tds9=false" in JDBC URL.)

The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.

If a statement requested a massive amount of columns, sometimes the Exception "Unknown data type:"... would occur. This is fixed now.

Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.

Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.

The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.

Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn’t regard the max data types of SQL Server 2005. An "unknown type" Exception was thrown before.


Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error "column type XX is unknown".

An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeQuery() was fixed. The exception could occur with an additional PreparedStatement pool.

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.
If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

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The method PoolManager.getConnection() is follow more the FIFO concept.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 Megabyte are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARDONLY, READONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.
<li class="level1"><div class="li"> In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.</div></li>

<li class="level1"><div class="li"> A bug with the PoolManager inactive timeout was fixed.</div></li>


<ul>
<li class="level1"><div class="li"> The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.</div></li>

<li class="level1"><div class="li"> Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.</div></li>

<li class="level1"><div class="li"> The warnings of getTransactionIsolation() are ignored now.</div></li>

<li class="level1"><div class="li"> The bulk transfer limit was reduced from 200 <abbr title="Megabyte">MB</abbr> to 100 <abbr title="Megabyte">MB</abbr>.</div></li>

<li class="level1"><div class="li"> A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.</div></li>

<li class="level1"><div class="li"> The default value of dstSave was changed to true.</div></li>

<li class="level1"><div class="li"> Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.</div></li>

<li class="level1"><div class="li"> Transaction isolation snapshot was added.</div></li>

<li class="level1"><div class="li"> The JDBC 4 feature of negative length for streaming values was added.</div></li>

<li class="level1"><div class="li"> A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.</div></li>

<li class="level1"><div class="li"> ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.</div></li>

<li class="level1"><div class="li"> Some failover properties were added.</div></li>

<li class="level1"><div class="li"> A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.</div></li>

<li class="level1"><div class="li"> PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.</div></li>
The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.

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A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.

A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.

The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br />
[xyz2005]Could not find server "xyz2005" in sysservers. Execute sp_addlinkedserver to add the server to sysservers."&quot;

A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.

Integrated Windows Authentication for TCP/IP connections was added.

An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.

The methods getFunctions and getFunctionColumns are now implemented.

The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.

<ul>
  <li class="level1"> Property statusRequest added.</li>
  <li class="level1"> An encoding bug with the XML data type of the SQL Server 2005 was fixed.</li>
  <li class="level1"> The following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran, impltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].</li>
</ul>


<ul>
  <li class="level1"> The error "The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly." with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.</li>
  <li class="level1"> The follow SQL "SELECT {ts '2007-10-19 10:20:30.000'}" returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.</li>
  <li class="level1"> A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator.".</li>
  <li class="level1"> Instances of PDataSource could not have been serialized.</li>
  <li class="level1"> <em>hostProcess</em> is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table <em>sysprocesses</em>. It is also used for JDBC logging.</li>
  <li class="level1"> With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".</li>
  <li class="level1"> A NullPointerException with deserialize of the CachedRowSet was fixed.</li>
</ul>
exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000"
[xyz2005]Could not find server 'xyz2005' in sysservers. Execute sp_addlinkedserver to add the server to sysservers.
</li>
<li class="level1"><div class="li"> Fix a bug with Windows NT authentication and SQL Server 2005.</div>
</li>
<li class="level1"><div class="li"> Connection property resultSetType added.</div>
</li>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.</div>
</li>
<li class="level1"><div class="li"> The error message "Fatal error on prepare. Connection will be closed." which occurred with a very fast cancel() was fixed.</div>
</li>
<li class="level1"><div class="li"> The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.</div>
</li>
<li class="level1"><div class="li"> The error message "Could not find prepared statement with handle 0." was fixed.</div>
</li>
<li class="level1"><div class="li"> The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.</div>
</li>
<li class="level1"><div class="li"> The method DataSource.setUrl was added.</div>
</li>
<li class="level1"><div class="li"> The call ResultSet.findColumn( "" ) did not find empty columns.</div>
</li>
<li class="level1"><div class="li"> A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error "Error converting data type decimal to decimal."</div>
</li>
<li class="level1"><div class="li"> Some error handling was added for connecting to prevent problems in stress conditions.</div>
</li>
<li class="level1"><div class="li"> The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.</div>
</li>
<li class="level1"><div class="li"> A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.</div>
</li>
</ul>
There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.

Connection property resultSetType was not used for PreparedStatement and CallableStatement.

There could be a very rare exception "You are tried to connect to SQL Server 6.5 with the sql7 mode." with SQL Server 2005 when calling getConnection().

Classes DTDataSource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.

Empty strings in CacheRowSet changed to null values after serialization.

A very rare "ArrayIndexOutOfBoundsException: Array index out of range: 0" on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary key.

The inactive timeout of the PoolManager is now reset with every method call.

The property fastbatch was added.

A possible hanging in socket.skip() after a timeout or cancel was fixed.

An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.

Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.

The error "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.
Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.

Fixed some bugs in ParameterMetaData.

Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.

A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.

Fixed some bugs in setClientInfo(String,String) and optimized performance.

Removed the finalize() method from the Connection object.

Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().

Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.

A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.

An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update.
count.</div>
</li>
<li class="level1"><div class="li"> With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.</div>
</li>
<li class="level1"><div class="li"> A memory leak in the DTCPProxy was fixed.</div>
</li>
<li class="level1"><div class="li"> Long-running XA transactions were rolled back after 10 minutes under very rare conditions.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.</div>
</li>
<li class="level1"><div class="li"> Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div>
</li>
<li class="level1"><div class="li"> Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added property packetSize and changed the default from server default to 8000.</div>
</li>
<li class="level1"><div class="li"> Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.</div>
</li>
<li class="level1"><div class="li"> Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.</div>
</li>
<li class="level1"><div class="li"> The method getClob() returned wrong data for data type VARCHAR(MAX).</div>
</li>
<li class="level1"><div class="li"> Changed the default value of impltran for PDataSource to false.</div>
</li>
</ul>
</div>

- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).

- A regression with ParameterMetaData note setting parameters was fixed.

- An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.

- A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

17.27. Changes in Version 8.03  (17. Apr 2013)

- A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.


- Does not use the package sun.misc.* on Java 6 and newer.

17.29. Changes in Version 8.05  (9. Apr 2014)

- A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets
<li class="level1"><div class="li"> Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</div></li>
<li class="level1"><div class="li"> Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x, Calendar) on DATETIME2 column with a precision smaller 7.</div></li>

<ul>
<li class="level1"><div class="li"> Added support for VNN (virtual network names) together with instance names.</div></li>
<li class="level1"><div class="li"> Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.</div></li>
<li class="level1"><div class="li"> No longer write the password to the driver log.</div></li>
<li class="level1"><div class="li"> Add the interface NtlmHandshake to support an external NTLM login source.</div></li>
</ul>

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Anders Moeller
amoeller@brics.dk

dssrc/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.jar
src/plugin/clustering-carrot2/lib/carrot2-snowball-stemmers.jar
src/plugin/clustering-carrot2/lib/carrot2-util-tokenizer.jar
src/plugin/clustering-carrot2/lib/carrot2-local-core.jar

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src/plugin/lib-xml/lib/xercesImpl.jar

ASF

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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//
package org.eclipse.jetty.client;

import java.io.IOException;
import java.net.InetSocketAddress;
import java.net.SocketAddress;
import java.net.SocketException;
import java.nio.channels.SelectableChannel;
import java.nio.channels.SelectionKey;
import java.nio.channels.SocketChannel;
import java.util.Map;
import org.eclipse.jetty.client.api.Connection;
import org.eclipse.jetty.io.EndPoint;
import org.eclipse.jetty.io.ManagedSelector;
import org.eclipse.jetty.io.SelectorManager;
import org.eclipse.jetty.io.SocketChannelEndPoint;
import org.eclipse.jetty.io.ssl.SslClientConnectionFactory;
import org.eclipse.jetty.util.Promise;
import org.eclipse.jetty.util.annotation.ManagedAttribute;
import org.eclipse.jetty.util.annotation.ManagedObject;

@ManagedObject
public abstract class AbstractConnectorHttpClientTransport extends AbstractHttpClientTransport
{
    private final int selectors;
    private SelectorManager selectorManager;

    protected AbstractConnectorHttpClientTransport(int selectors)
    {
        this.selectors = selectors;
    }

    @ManagedAttribute(value = "The number of selectors", readonly = true)
    public int getSelectors()
    {
        return selectors;
    }
}
@Override
protected void doStart() throws Exception
{
    HttpClient httpClient = getHttpClient();
    selectorManager = newSelectorManager(httpClient);
    selectorManager.setConnectTimeout(httpClient.getConnectTimeout());
    addBean(selectorManager);
    super.doStart();
}

@Override
protected void doStop() throws Exception
{
    super.doStop();
    removeBean(selectorManager);
}

@Override
public void connect(InetSocketAddress address, Map<String, Object> context)
{
    SocketChannel channel = null;
    try
    {
        channel = SocketChannel.open();
        HttpDestination destination = (HttpDestination)context.get(HTTP_DESTINATION_CONTEXT_KEY);
        HttpClient client = destination.getHttpClient();
        SocketAddress bindAddress = client.getBindAddress();
        if (bindAddress != null)
            channel.bind(bindAddress);
        configure(client, channel);
        context.put(SslClientConnectionFactory.SSL_PEER_HOST_CONTEXT_KEY, destination.getHost());
        context.put(SslClientConnectionFactory.SSL_PEER_PORT_CONTEXT_KEY, destination.getPort());
        boolean connected = true;
        if (client.isConnectBlocking())
        {
            channel.socket().connect(address, (int)client.getConnectTimeout());
            channel.configureBlocking(false);
        }
        else
        {
            channel.configureBlocking(false);
            connected = channel.connect(address);
        }
        if (connected)
            selectorManager.accept(channel, context);
        else

selectorManager.connect(channel, context);

// Must catch all exceptions, since some like
// UnresolvedAddressException are not IOExceptions.
catch (Throwable x)
{
    try
    {
    // If IPv6 is not deployed, a generic SocketException "Network is unreachable"
    // exception is being thrown, so we attempt to provide a better error message.
    if (x.getClass() == SocketException.class)
        x = new SocketException("Could not connect to " + address).initCause(x);

    if (channel != null)
        channel.close();
    }
catch (IOException xx)
    {
        LOG.ignore(xx);
    }
    finally
    {
        connectFailed(context, x);
    }
}

protected void connectFailed(Map<String, Object> context, Throwable x)
{
    if (LOG.isDebugEnabled())
        LOG.debug("Could not connect to {}", context.get(HTTP_DESTINATION_CONTEXT_KEY));
    @SuppressWarnings("unchecked")
    Promise<Connection> promise = (Promise<Connection>)context.get(HTTP_CONNECTION_PROMISE_CONTEXT_KEY);
    promise.failed(x);
}

protected void configure(HttpClient client, SocketChannel channel) throws IOException
{
    channel.socket().setTcpNoDelay(client.isTCPNoDelay());
}

protected SelectorManager newSelectorManager(HttpClient client)
{
    return new ClientSelectorManager(client, getSelectors());
}

protected SelectorManager getSelectorManager()
protected class ClientSelectorManager extends SelectorManager
{
    private final HttpClient client;

    protected ClientSelectorManager(HttpClient client, int selectors)
    {
        super(client.getExecutor(), client.getScheduler(), selectors);
        this.client = client;
    }

    @Override
    protected EndPoint newEndPoint(SelectableChannel channel, ManagedSelector selector, SelectionKey key)
    {
        SocketChannelEndPoint endp = new SocketChannelEndPoint(channel, selector, key, getScheduler());
        endp.setIdleTimeout(client.getIdleTimeout());
        return endp;
    }

    @Override
    public org.eclipse.jetty.io.Connection newConnection(SelectableChannel channel, EndPoint endPoint, Object attachment) throws IOException
    {
        @SuppressWarnings("unchecked")
        Map<String, Object> context = (Map<String, Object>)attachment;
        HttpDestination destination = (HttpDestination)context.get(HTTP_DESTINATION_CONTEXT_KEY);
        return destination.getClientConnectionFactory().newConnection(endPoint, context);
    }

    @Override
    protected void connectionFailed(SelectableChannel channel, Throwable x, Object attachment)
    {
        @SuppressWarnings("unchecked")
        Map<String, Object> context = (Map<String, Object>)attachment;
        connectFailed(context, x);
    }
}

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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//

package org.eclipse.jetty.io;

import java.io.EOFException;
import java.io.IOException;
import java.net.Inet4Address;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.UnknownHostException;
import java.nio.ByteBuffer;
import java.nio.channels.ClosedChannelException;
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.util.ArrayDeque;
import java.util.Queue;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.locks.Condition;
import org.eclipse.jetty.util.BufferUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.thread.Locker;
import org.eclipse.jetty.util.thread.Scheduler;

/* ----------------------------------------------------------- */
/** ByteArrayEndPoint.                        */
/**                                              */
/*                                              */
public class ByteArrayEndPoint extends AbstractEndPoint
{
    static final Logger LOG = Log.getLogger(ByteArrayEndPoint.class);
    static final InetAddress NOIP;
    static final InetSocketAddress NOIPPORT;

    static
    {
        InetAddress noip=null;
        try
        {
            noip = Inet4Address.getByName("0.0.0.0");
        }
        catch (UnknownHostException e)
        {
            LOG.warn(e);
        }
        finally
        {
            NOIP=noip;
            NOIPPORT=new InetSocketAddress(NOIP,0);
        }
    }

    private static final ByteBuffer EOF = BufferUtil.allocate(0);

    private final Runnable _runFillable = new Runnable()
    {
        @Override
        public void run()
        {
            getFillInterest().fillable();
        }
    };

    private final Locker _locker = new Locker();
    private final Condition _hasOutput = _locker.newCondition();
    private final Queue<ByteBuffer> _inQ = new ArrayDeque<>();
    private ByteBuffer _out;

    private static final ByteBuffer EOF = BufferUtil.allocate(0);

    private final Runnable _runFillable = new Runnable()
    {
        @Override
        public void run()
        {
            getFillInterest().fillable();
        }
    };

    private final Locker _locker = new Locker();
    private final Condition _hasOutput = _locker.newCondition();
    private final Queue<ByteBuffer> _inQ = new ArrayDeque<>();
    private ByteBuffer _out;
private boolean _growOutput;

/**
* @param input the input bytes
* @param outputSize the output size
*/
public ByteArrayEndPoint(byte[] input, int outputSize)
{
    this(null,0,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

/**
* @param input the input string (converted to bytes using default encoding charset)
* @param outputSize the output size
*/
public ByteArrayEndPoint(String input, int outputSize)
{
    this(null,0,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

/**
* @param scheduler the scheduler
* @param idleTimeoutMs the idle timeout in milliseconds
*/
public ByteArrayEndPoint(Scheduler scheduler, long idleTimeoutMs)
{
    this(scheduler,idleTimeoutMs,null,null);
}

/**
* @param timer the timer
* @param idleTimeoutMs the idle timeout in milliseconds
* @param input the input bytes
* @param outputSize the output size
*/
public ByteArrayEndPoint(Scheduler timer, long idleTimeoutMs, byte[] input, int outputSize)
{
    this(timer,idleTimeoutMs,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}

/**
* @param timer the timer
* @param idleTimeoutMs the idle timeout in milliseconds
* @param input the input string
* @param outputSize the output size
*/
public ByteArrayEndPoint(Scheduler timer, long idleTimeoutMs, String input, int outputSize)
{
    this(timer,idleTimeoutMs,input!=null?BufferUtil.toBuffer(input):null,BufferUtil.allocate(outputSize));
}
/**
 * 
 */

public ByteArrayEndPoint(Scheduler timer, long idleTimeoutMs, ByteBuffer input, ByteBuffer output)
{
    super(timer);
    if (BufferUtil.hasContent(input))
        addInput(input);
    _out=output==null?BufferUtil.allocate(1024):output;
    setIdleTimeout(idleTimeoutMs);
    onOpen();
}

/**
 * 
 */

@Override
public void doShutdownOutput()
{
    super.doShutdownOutput();
    try(Locker.Lock lock = _locker.lock())
    {
        _hasOutput.signalAll();
    }
}

/**
 * 
 */

@Override
public void doClose()
{
    super.doClose();
    try(Locker.Lock lock = _locker.lock())
    {
        _hasOutput.signalAll();
    }
}

/**
 * 
 */

@Override
public InetSocketAddress getLocalAddress()
{
    return NOIPPORT;
}

/**
 * 
 */

@Override
public InetSocketAddress getRemoteAddress()
{
    return NOIPPORT;
}
@Override
protected void onIncompleteFlush()
{
    // Don't need to do anything here as takeOutput does the signalling.
}

@Override
protected void execute(Runnable task)
{
    new Thread(task,"BAEPoint-"+Integer.toHexString(hashCode())).start();
}

@Override
protected void needsFillInterest() throws IOException
{
    try(Locker.Lock lock = _locker.lock())
    {
        if (!isOpen())
            throw new ClosedChannelException();

        ByteBuffer in = _inQ.peek();
        if (BufferUtil.hasContent(in) || isEOF(in))
            execute(_runFillable);
    }
}

public void addInputEOF()
{
    addInput((ByteBuffer)null);
}

public void addInput(ByteBuffer in)
{
    boolean fillable=false;
    try(Locker.Lock lock = _locker.lock())
    {
        if (isEOF(_inQ.peek()))
            throw new RuntimeIOException(new EOFException());

        boolean was_empty=_inQ.isEmpty();
    }
}
if (in==null)
{
    _inQ.add(EOF);
    fillable=true;
}
if (BufferUtil.hasContent(in))
{
    _inQ.add(in);
    fillable=was_empty;
}
}
if (fillable)
    _runFillable.run();
}
/* ------------------------------------------------------------ */

public void addInputAndExecute(ByteBuffer in)
{
    boolean fillable=false;
    try(Locker.Lock lock = _locker.lock())
    {
        if (isEOF(_inQ.peek()))
            throw new RuntimeIOException(new EOFException());
        boolean was_empty=_inQ.isEmpty();
        if (in==null)
        {
            _inQ.add(EOF);
            fillable=true;
        }
        if (BufferUtil.hasContent(in))
        {
            _inQ.add(in);
            fillable=was_empty;
        }
        if (fillable)
            execute(_runFillable);
    }
/* ------------------------------------------------------------ */

public void addInput(String s)
{
    addInput(BufferUtil.toBuffer(s,StandardCharsets.UTF_8));
}
/* ------------------------------------------------------------ */

public void addInput(String s,Charset charset)
{
addInput(BufferUtil.toBuffer(s.charset));
}

/* ------------------------------------------------------------- */
/**
 * @return Returns the out.
 */
public ByteBuffer getOutput()
{
    try(Locker.Lock lock = _locker.lock())
    {
        return _out;
    }
}

/* ------------------------------------------------------------- */
/**
 * @return Returns the out.
 */
public String getOutputString()
{
    return getOutputString(StandardCharsets.UTF_8);
}

/* ------------------------------------------------------------- */
/**
 * @param charset the charset to encode the output as
 * @return Returns the out.
 */
public String getOutputString(Charset charset)
{
    return BufferUtil.toString(_out,charset);
}

/* ------------------------------------------------------------- */
/**
 * @return Returns the out.
 */
public ByteBuffer takeOutput()
{
    ByteBuffer b;
    try(Locker.Lock lock = _locker.lock())
    {
        b=_out;
        _out=BufferUtil.allocate(b.capacity());
    }
    getWriteFlusher().completeWrite();
public ByteBuffer waitForOutput(long time, TimeUnit unit) throws InterruptedException{
    ByteBuffer b;
    try(Locker.Lock lock = _locker.lock()){
        while (BufferUtil.isEmpty(_out) && !isOutputShutdown()){
            if (!_hasOutput.await(time,unit))
                return null;
        }
        b=_out;
        _out=BufferUtil.allocate(b.capacity());
    }
    getWriteFlusher().completeWrite();
    return b;
}

public String takeOutputString(){
    return takeOutputString(StandardCharsets.UTF_8);
}

public String takeOutputString(Charset charset){
    ByteBuffer buffer=takeOutput();
    return BufferUtil.toString(buffer,charset);
}
public void setOutput(ByteBuffer out) {
    try(Locker.Lock lock = _locker.lock()) {
        _out = out;
    }
    getWriteFlusher().completeWrite();
}

public boolean hasMore() {
    return getOutput().position()>0;
}

@see org.eclipse.io.EndPoint#fill(org.eclipse.io.Buffer)
@Override
public int fill(ByteBuffer buffer) throws IOException {
    int filled=0;
    try(Locker.Lock lock = _locker.lock()) {
        while(true) {
            if (!isOpen())
                throw new EofException("CLOSED");
            if (isInputShutdown())
                return -1;
            if (_inQ.isEmpty())
                break;
            ByteBuffer in= _inQ.peek();
            if (isEOF(in))
                break;
            filled+=in.remaining();
        }
    }
    return filled;
}
if (BufferUtil.hasContent(in))
{
    filled=BufferUtil.append(buffer, in);
    if (BufferUtil.isEmpty(in))
        _inQ.poll();
    break;
}

else
    _inQ.poll();

if (filled>0)
    notIdle();
else if (filled<0)
    shutdownInput();
return filled;
if (BufferUtil.append(_out,b)>0)
    idle=false;

if (BufferUtil.hasContent(b))
{
    flushed=false;
    break;
}
}
}
if (!idle)
{
    notIdle();
    _hasOutput.signalAll();
}
return flushed;

/*@Override*/
public void reset()
{
    try(Locker.Lock lock = _locker.lock())
    {
        _inQ.clear();
        _hasOutput.signalAll();
        BufferUtil.clear(_out);
    }
    super.reset();
}

/*@Override*/
public Object getTransport()
{
    return null;
}
/* ----------------------------- */
/**
 * @return the growOutput
 */
public boolean isGrowOutput()
{
    return _growOutput;
}

/* ----------------------------- */
/**
 * @param growOutput the growOutput to set
 */
public void setGrowOutput(boolean growOutput)
{
    _growOutput = growOutput;
}

/* ----------------------------- */
@Override
public String toString()
{
    int q;
    ByteBuffer b;
    String o;
    try(Locker.Lock lock = _locker.lock())
    {
        q = _inQ.size();
        b = _inQ.peek();
        o = BufferUtil.toDetailString(_out);
    }
    return String.format("%s[q=%d,q[0]=%s,o=%s]", super.toString(), q, b, o);
}

/* ----------------------------- */
/**
 * Compares a ByteBuffer Object to EOF by Reference
 * @param buffer the input ByteBuffer to be compared to EOF
 * @return Whether the reference buffer is equal to that of EOF
 */
private static boolean isEOF(ByteBuffer buffer)
{
    @SuppressWarnings("ReferenceEquality")
    boolean is_EOF = (buffer == EOF);
    return is_EOF;
}
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------
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

-----
OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

-----
Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

```
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
```

The following artifacts are CDDL + GPLv2 with classpath exception.

```
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
```

```
org.eclipse.jetty.toolchain:jetty-schemas
```

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package org.eclipse.jetty.server;

import java.io.IOException;
import java.util.concurrent.Executor;
import java.util.concurrent.Future;
import org.eclipse.jetty.io.ByteBufferPool;

import java.io.IOException;
import java.util.concurrent.Executor;
import java.util.concurrent.Future;
import org.eclipse.jetty.io.ByteBufferPool;
import org.eclipse.jetty.util.annotation.ManagedAttribute;
import org.eclipse.jetty.util.annotation.ManagedObject;
import org.eclipse.jetty.util.thread.Scheduler;

/**
 * An abstract Network Connector.
 * <p>
 * Extends the { @link AbstractConnector} support for the { @link NetworkConnector} interface.
 * */
@ManagedObject("AbstractNetworkConnector")
public abstract class AbstractNetworkConnector extends AbstractConnector implements NetworkConnector
{

    private volatile String _host;
    private volatile int _port = 0;

    public AbstractNetworkConnector(Server server, Executor executor, Scheduler scheduler, ByteBufferPool pool,
            int acceptors, ConnectionFactory... factories)
    {
        super(server,executor,scheduler,pool,acceptors,factories);
    }

    public void setHost(String host)
    {
        _host = host;
    }

    @Override
    @ManagedAttribute("The network interface this connector binds to as an IP address or a hostname. If null or 0.0.0.0, then bind to all interfaces.")
    public String getHost()
    {
        return _host;
    }

    public void setPort(int port)
    {
        _port = port;
    }

    @Override
    @ManagedAttribute("Port this connector listens on. If set the 0 a random port is assigned which may be obtained with getLocalPort()")
    public int getPort()
    {
        return _port;
    }
@Override
public int getLocalPort()
{
    return -1;
}

@Override
protected void doStart() throws Exception
{
    open();
    super.doStart();
}

@Override
protected void doStop() throws Exception
{
    close();
    super.doStop();
}

@Override
public void open() throws IOException
{
}

@Override
public void close()
{
}

@Override
public Future<Void> shutdown()
{
    close();
    return super.shutdown();
}

@Override
protected boolean handleAcceptFailure(Throwable ex)
{
    if (isOpen())
    {
        return super.handleAcceptFailure(ex);
    }
    LOG.ignore(ex);
    return false;
}

@Override
public String toString()
{
    return String.format("%s{%s:%d}",
            super.toString(),
            getHost() == null ? "0.0.0.0" : getHost(),
            getLocalPort() <= 0 ? getPort() : getLocalPort());
}

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util
org.apache.tomcat:tomcat-util-scan

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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That's all there is to it!

5.365 jgrapht-core 1.1.0

5.366 jgroups-all 2.2.9-beta2

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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.

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Any executables containing that work also fall under Section 6.

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whether or not they are linked directly with the Library itself.

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

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link a "work that uses the Library" with the Library to produce a

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work containing portions of the Library, and distribute that work

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under terms of your choice, provided that the terms permit

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modification of the work for the customer's own use and reverse

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engineering for debugging such modifications.

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rather than copying library functions into the executable, and (2)

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Historical notes

-------------
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1. WORKING WITH MAVEN
=======================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...

  <servers>
    ...

    <server>
      <id>jboss-developer</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>

    <server>
      <id>jboss-snapshots</id>
      <username>jboss.org username</username>
      <password>jboss.org password</password>
    </server>

    <server>
      <id>jboss-releases</id>
      ...
```
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
==========

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------

* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, i.e., so:

$ mvn surefire-report:report-only

2.3. Executing different groups

A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test

A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package

This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/*/ test

2.6. Skipping the test run

It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.

To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install
Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations

We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

```
$ mvn -Pjgroups-tcp surefire-report:report
```

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

- Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

- Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is
set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

1. WORKING WITH MAVEN
======================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases
-----------------------------------------

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.
* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
...

<servers>
...

<server>
  <id>jboss-developer</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-snapshots</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-releases</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
...</n
</servers>
```
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven will pick up on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
==========

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------

* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------

The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

$ mvn test
Alternatively, you can execute the tests AND generate a report with:

```
$ mvn surefire-report:report
```

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, like so:

```
$ mvn surefire-report:report-only
```

2.3. Executing different groups
-----------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

```
$ mvn -P test-jgroups test
```

2.4. Executing a single test
-----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

```
$ mvn -P test-XXX -Dtest=FqnTest test
```

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

```
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test
```

2.5. Executing all tests in a given package
-------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

```
$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test
```

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.

To do this, simply use the maven.test.skip.exec property:

```
$ mvn -Dmaven.test.skip.exec=true install
```

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the Core Cache test jar).

2.7. Permutations
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE

Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Digroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.

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* Documentation Location
* Third-Party Component Notices

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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.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.
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.
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
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modification of the work for the customer's own use and reverse
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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

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d) If distribution of the work is made by offering access to copy

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e) Verify that the user has already received a copy of these

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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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Preamble

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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.

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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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
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to use the modified definitions.)

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Sentry Spelling Checker Engine
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</p>
</body></html>
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9623
Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

Version: 8.06
Last Modified: 15. Apr 2015

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1.2 Using the Driver in an Applet

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<li class="level1"><div class="li"><span class="li"><a href="preparedstatement-performance-and-data-type-mapping" class="inlinetoc">7. PreparedStatement Performance and Data Type Mapping</a></span></div>
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<li class="level1"><div class="li"><span class="li"><a href="locking-and-concurrency-control" class="inlinetoc">9. Locking and Concurrency Control</a></span></div>
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<li class="level2"><div class="li"><span class="li"><a href="#configuration-in-java" class="inlinetoc">10.3.2 Configuration in Java</a></span></div></li>
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17.27. Changes in Version 8.03 (17. Apr 2013)


17.29. Changes in Version 8.05 (9. Apr 2014)

1. Installation

The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

1.2 Using the Driver in an Applet

Add the driver jar file to the archive attribute of the applet tag, e.g.:

```html
&lt;APPLET CODE=...&gt;
...&lt;/APPLET&gt;
```

or extract the jar in the directory of the applet.

2. Getting Started

2.1 SQL Server, Java and JDBC Versions
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      <td class="col2">2.0 + Optional Package</td>
    </tr>
    <tr class="row4">
      <td class="col0">MERLIA</td>
      <td class="col1">1.4</td>
      <td class="col2">3.0<br>4.0 (with Java 6.0)</td>
    </tr>
  </table></div>
  <p>All drivers support the following SQL Server versions:</p>
  <ul>
    <li>Microsoft SQL Server 2014</li>
    <li>Microsoft SQL Server 2012</li>
    <li>Microsoft SQL Server 2008</li>
    <li>Microsoft SQL Server 2005</li>
    <li>Microsoft SQL Server 2000</li>
    <li>Microsoft SQL Server 7.0</li>
    <li>Microsoft SQL Server 6.5</li>
  </ul>
  <p>with all Service Packs (32 bit / 64 bit)</p>
</div>
## 2.2 Implemented Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API</td>
<td>1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>-----</td>
</tr>
<tr>
<td>Multiple Open ResultSets per Statement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>ResultSet Holdability</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A more complete list can be found at:
[http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features](http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features)

---

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.
Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet &lt;hostname or ip address&gt; &lt;port number&gt;
```

If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Windows NT authentication (trusted connection)
- Mixed (or both) authentications

Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you'll need to use an SQL Server login, in which case you'll need to enable SQL Server authentication and Mixed authentication. To verify the authentication type:
<ul>
<li class="level1"><div class="li">Select the SQL Server in the Enterprise Manager</div></li>
<li class="level1"><div class="li">Open the properties dialog</div></li>
<li class="level1"><div class="li">Select the security tab</div></li>
</ul>

If you want to use "Windows NT authentication" with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.

<h3 id="driver-class-name">2.5 Driver Class Name</h3>

The class name of the driver is: <strong>com.inet.tds.TdsDriver</strong>

The name of the pooled driver is: <strong>com.inet.pool.PoolDriver</strong><br/>
The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA

<table>
<thead>
<tr>
<th>com.inet.tds.TdsDataSource</th>
<th>This is a simple DataSource. Also named JDBC 1 DataSource.</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.inet.tds.PDataSource</td>
<td>This is pooled DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.DTCDataSource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCPproxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>
For a list of DataSource Properties look in the [API documentation](#).

### 2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>Subprotocol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7: hostname:portnumber</td>
<td>support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&amp;sql7=true)</td>
</tr>
<tr>
<td>jdbc:inetdae7a: hostname</td>
<td>support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 API compliance is required. <a href="#">see character converting JDBC 4.0 API</a></td>
</tr>
<tr>
<td>jdbc:inetdae6: hostname</td>
<td>SQL Server 6.5 compatible mode (passwords are transferred plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: hostname</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetpool: hostname</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

### 2.7 JDBC URL Syntax of the driver

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:hostname:portnumber</td>
<td></td>
</tr>
<tr>
<td>jdbc:inetda7a:hostname</td>
<td>with default port 1433</td>
</tr>
<tr>
<td>jdbc:inetdae6:hostname</td>
<td></td>
</tr>
<tr>
<td>jdbc:inetdae:hostname</td>
<td></td>
</tr>
<tr>
<td>jdbc:inetpool:hostname</td>
<td></td>
</tr>
</tbody>
</table>

---

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The pooled driver is only part of OPTA and MERLIA.

Examples:

```
jdbc:inetpool:inetdae7:www.inetsoftware.de:1433
jdbc:inetpool:inetdae7:localHost:1433
jdbc:inetdae7:210.1.164.19:1433
jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433
jdbc:inetpool:inetdae7://MyServer/pipe/sql/query
jdbc:inetpool:jdbc:inetdae7:www.inetsoftware.de:1433
jdbc:inetpool:jdbc:inetdae7:localHost:1433
```
### 2.9 Implemented Driver Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>database</td>
<td>default is the user default database</td>
</tr>
<tr>
<td>language</td>
<td>default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td>user</td>
<td>the database user, if empty the current windows user is used</td>
</tr>
<tr>
<td>password</td>
<td>password of the database user</td>
</tr>
<tr>
<td>charset</td>
<td>see Character Converting</td>
</tr>
<tr>
<td>initSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>logging</td>
<td>default is &quot;false&quot;</td>
</tr>
</tbody>
</table>
If the value is "true" and the JDBC logging is not enabled then the driver will set it to System.out.

<table>
<thead>
<tr>
<th>sql7</th>
<th>default is &quot;false&quot; with &quot;inetdae&quot; &quot;true&quot; the new datatypes are supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>sql7</td>
<td>default is &quot;false&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>secureLevel</th>
<th>default is 1; set the level of security with SSL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>prepare</td>
<td>default is &quot;true&quot;; PreparedStatements are prepared on the SQL Server.</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>default is 60</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
</tbody>
</table>
The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().

**JAVA_OBJECT**: default is "true"

The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().

- **appname**: Application name (only Application and Enterprise licenses)
- **WSID**: Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().
- **useCur_sorsAlways**: default is "false". "true": the method executeQuery always uses server cursors.
- **resultSetType**: default is "1003" (ResultSet.TYPE_FORWARD_ONLY)
- **useInsteadOfTrigger**: default is "false". "true": in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger.
- **impltran**: with Driver the default is "true" for compatibility with the JDBC-ODBC bridge.
- **fulltran**: default is "true", creates always a transaction with setAutoCommit( false ); otherwise to reduce deadlock problems.

If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction.
transactions will only start if needed. More information on these SQL expressions and their behavior can be found in the MSSQL Server Online Manual.

<table>
<thead>
<tr>
<th>Column</th>
<th>Default Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>dstsave</td>
<td>default is true&lt;br&gt;Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the API requests the status of a connection. There are 2 possible modes: * safe (default) - an additional round trip to the database is executed. * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()</td>
</tr>
<tr>
<td>fastbatch</td>
<td>default is true&lt;br&gt;Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr>
<td>host</td>
<td>override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property &quot;instance&quot;:</td>
</tr>
<tr>
<td>instance</td>
<td>override the value in the JDBC URL, required the UDP port 1434</td>
</tr>
<tr>
<td>port</td>
<td>override the value in the JDBC URL</td>
</tr>
<tr>
<td>failover</td>
<td>see chapter &quot;Failover on getConnection()&quot;</td>
</tr>
</tbody>
</table>
<tr class="row31">
<th class="col0 leftalign"> mars                 </th><td class="col1 leftalign"> Enables ("true") or disables ("false") the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.
</td>
</tr>
<tr class="row32">
<th class="col0 leftalign"> packetSize           </th><td class="col1 leftalign"> Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.
</td>
</tr>
<tr class="row33">
<th class="col0 leftalign"> mode </th><td class="col1 leftalign"> Only for DataSources. The value is equals to the JDBC sub protocol. See the <a href="doc/index.67c26e572542f9b2e52207bf2f957253.html#setMode%28int%29" target="_blank" class="wikilink1">API documentation</a> for more details.
</td>
</tr>
<tr class="row34">
<th class="col0 leftalign"> typeMapping          </th><td class="col1 leftalign"> default is jdbc4<br/>Which data type constant should be used from the driver. Available options are <em>jdbc3</em>, <em>jdbc4</em> and <em>odbc</em>. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.
</td>
</tr>
<tr class="row35">
<th class="col0 leftalign"> sqlxml </th><td class="col1 leftalign"> default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.
</td>
</tr>

There are three ways to put the properties to the driver:

- append the properties to the URL like `jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch`
- call method getConnection(String url, Properties info) from the driver manager.
- create a DataSource and set the properties with the set methods.

2.10 Connections to the MSDE 2000 Release A

You need to enable "Mixed Authentification" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

Comments of the switches:
SAPWD="password"
Set the password for the sa account. This is required for Windows Server 2003.

SECURITYMODE=SQL
Set the Authentification to "Mixed Mode". This is required to connect via TCP/IP with a non Windows program like Java.

DISABLENETWORKPROTOCOLS=0
Enable the TCP/IP protocol.

---

<h3 id="connection-examples">2.11 Connection Examples</h3>

<p>
Eight examples are included in the download file.
</p>

<h4 id="classicdriverjava">ClassicDriver.java</h4>

<p>
An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)
</p>

<h4 id="pooleddriverjava">PooledDriver.java</h4>

<p>
This example shows the use of the PoolDriver. A driver with internal connection pooling.
</p>

<h4 id="withdatasourcejava">WithDataSource.java</h4>
<p>How to create a connection with a datasource.</p>

<h4 id="withpooldatasourcejava">WithPoolDataSource.java</h4>

<p>How to use the PooledConnection of the driver.</p>

<h4 id="withpoolmanagerjava">WithPoolManager.java</h4>

<p>This demonstrates the use of the PoolManager i-net PLEXA™; i-net PLEXA™ is an example of a pool manager. i-net PLEXA™ comes with i-net OPTA™.</p>

<h4 id="withjdbcrowsetjava">WithJDBCRowSet.java</h4>

<p>How to use the JDBCRowSet from i-net software (i-net OPTA™).</p>

<h4 id="withjndijava">WithJNDI.java</h4>

<p>This demonstrates the use of a DataSource with a JNDI directory.</p>

<h4 id="withjndiandpoolmanagerjava">WithJndiAndPoolManager.java</h4>

<p>This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net
3. Named Pipes

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is &quot;/sql/query&quot;; but you can change this pipe name in the server network manager.

4. Escape Clauses

The driver implements all escape clauses as follows:

4.1 Date and Time

```java
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}
```
4.2 Stored Procedures

```sql
{call storedProcedures('Param1', 'Param2', ...)}
```

Examples:
```
st = con.createStatement();
st.execute("{call MyProc('value')}");
```
```
pr = con.prepareStatement("{call MyProc('value')}");
pr.execute();
```
```
pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.execute();
```

4.3 Functions

Numeric Functions

```sql
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
```
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}</pre>

<p>Time and Date Functions</p>
<pre class="code">{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPADD(interval, datetime, datetime2)}</pre>

<p>interval may be one of the following:</p>
<pre class="code"><div class="level3">
SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR</div></pre>

<h3 id="outer-join">4.4 Outer Join</h3>
<div class="level3">

</div>
<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>

<h3 id="encrypt">4.5 Encrypt</h3>
<div class="level3">
<pre class="code">{encrypt N'password'}</pre>
</div>

<h2 id="character-converting">5. Character Converting</h2>
<div class="level2">
<p>
By default character converting is disabled. To use character converting in the driver you need to append
&amp;quot;charset=YourCharSet&amp;quot; to the url.
</p>
<p>
for example: &amp;quot;jdbc:inetdae:localhost:1433?charset=Cp1250&amp;quot;<br />
or &amp;quot;jdbc:inetdae:localhost:1433?charset=&amp;quot; +
sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();<br />
or &amp;quot;jdbc:inetdae:localhost:1433?charset=&amp;quot; + System.getProperty(&amp;quot;file.encoding&amp;quot;);<br />
or &amp;quot;jdbc:inetdae:localhost:1433?charset=&amp;quot; + (new java.io.InputStreamReader(in)).getEncoding();
</p>
<TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.<br />
You can test the availability of a character set with:&lt;br /&gt;
&amp;quot;test string&amp;quot;.getBytes( charset );&lt;br /&gt;
If this line executes correctly the character set is available in the current VM.&lt;br /&gt;
The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N. &lt;br /&gt;
Example: &amp;quot;INSERT INTO myTable(ntext field) VALUES( N&#039;national text&#039; )&amp;quot;:
</p>
</div>

<h3 id="jdbc-40-api">5.1 JDBC 4.0 API</h3>
<div class="level3">
<p>
JDBC 4.0 &lt;abbr title="Application Programming Interface"&gt;API&lt;/abbr&gt; is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g.
PreparedStatement.setNString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support &lt;abbr title="American Standard Code for Information Interchange"&gt;ASCII&lt;/abbr&gt; characters
</p>
</div>
only. If you need this compatibility then you have to use "inetdae7a" subprotocol.
If you want all String setter functions support unicode characters, use "inetdae7" subprotocol.
</p>

</div>

<h2 id="new-datatypes">6. New Datatypes</h2>

<h3 id="new-datatypes-with-sql-server-70-and-2000">6.1 New Datatypes with SQL Server 7.0 and 2000</h3>

<p>The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.</p>

<p>You can use the new datatypes if you use the jdbc url "jdbc:inetdae7:..." or set the property sql7=true.
</p>

<p>If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.
</p>

<p>If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.
</p>

<p>The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.
</p>

<ul>
  <li>-8 - NCHAR</li>
  <li>-9 - NVARCHAR</li>
  <li>-10 - NTEXT</li>
  <li>-11 - UNIQUEIDENTIFIER</li>
  <li>-150 - SQL_VARIANT</li>
</ul>
6.2 New Data types with SQL Server 2005

SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

- Varchar(max)
- NVarchar(max)
- Varbinary(max)

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of the SQL Server 2005 (Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

6.3 New Data types with SQL Server 2008

With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- DATE
The other new data types:

- GEOGRAPHY
- GEOMETRY
- HIERACHYID

are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

7. PreparedStatement Performance and Data Type Mapping

7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the [data type precedence](http://msdn.microsoft.com/library/en-us/tsqlref/ts_da-db_2js5.asp) rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:
<li class="level1"><div class="li"> datetime</div></li>
<li class="level1"><div class="li"> smalldatetime</div></li>
<li class="level1"><div class="li"> float</div></li>
<li class="level1"><div class="li"> real</div></li>
<li class="level1"><div class="li"> decimal</div></li>
<li class="level1"><div class="li"> money</div></li>
<li class="level1"><div class="li"> smallmoney</div></li>
<li class="level1"><div class="li"> bigint</div></li>
<li class="level1"><div class="li"> int</div></li>
<li class="level1"><div class="li"> smallint</div></li>
<li class="level1"><div class="li"> tinyint</div></li>
<li class="level1"><div class="li"> bit</div></li>
<li class="level1"><div class="li"> ntext</div></li>
<li class="level1"><div class="li"> text</div></li>
<li class="level1"><div class="li"> image</div></li>
<li class="level1"><div class="li"> timestamp</div></li>
<li class="level1"><div class="li"> uniqueidentifier</div></li>
<li class="level1"><div class="li"> nvarchar</div></li>
<li class="level1"><div class="li"> nchar</div></li>
<li class="level1"><div class="li"> varchar</div></li>
<li class="level1"><div class="li"> char</div></li>
<li class="level1"><div class="li"> varbinary</div></li>
<li class="level1"><div class="li"> binary (lowest)</div></li>
### 7.2 Data Type Mapping

If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>NVARCHAR</td>
<td>4000</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td></td>
<td>..</td>
</tr>
<tr>
<td>setClob</td>
<td>NVARCHAR</td>
<td>4000</td>
</tr>
</tbody>
</table>
If you use a set method that map to a data type with a higher precedence then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server can't use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case the MS SQL Server can detect that it can convert downward the static parameter.

**Solutions:**
1.) Use the correct set method.
2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:

```sql
... cast(? as TINYINT)
```

3.) Change the data type of the table.

### 7.4 Numeric columns and SQL Server 2000 SP4

BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don't match exactly the column type. For example Driver sends parameter as `decimal(38,36)` and the column type is `numeric (7,0)`. It seems that the index for the numeric column won't used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. `select * from testnumeric where a = CAST(?) AS numeric(7,0);`

### 8. Scrolling Cursor Types

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fast-Forward</td>
</tr>
<tr>
<td>2</td>
<td>Forward-only</td>
</tr>
<tr>
<td>3</td>
<td>Insensitive keyset cursor</td>
</tr>
</tbody>
</table>

A forward only cursor with activated optimisation. The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.

The fetch functions will allow a concurrency of CONCUR_READ_ONLY. SQL Server will generate a temporary table, so changes made to the rows by others will not be visible through the cursor. The fetch functions will allow all fetchtype values.
<div class="table">
<table class="inline">
<tr class="row0">
<td class="col0"><strong>concurrency type</strong></td>
<td class="col1"><strong>Description</strong></td>
</tr>
<tr class="row1">
<td class="col0">CONCUR_READ_ONLY</td>
<td class="col1">Read-only cursor. You cannot modify rows in the cursor result set.</td>
</tr>
<tr class="row2">
<td class="col0">CONCUR_UPDATABLE</td>
<td class="col1">Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.</td>
</tr>
<tr class="row3">
<td class="col0">CONCUR_UPDATABLE+1</td>
<td class="col1">Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.</td>
</tr>
<tr class="row4">
<td class="col0">CONCUR_UPDATABLE+2</td>
<td class="col1">Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.</td>
</tr>
</table>
</div>

<h2 id="locking-and-concurrency-control">9. Locking and Concurrency Control</h2>

Concurrency type is one of the following concurrency control options.

<table>
<thead>
<tr>
<th>concurrency type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCUR_READ_ONLY</td>
<td>Read-only cursor. You cannot modify rows in the cursor result set.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE</td>
<td>Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+1</td>
<td>Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+2</td>
<td>Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.</td>
</tr>
</tbody>
</table>
10. Failover

10.1 Failover on getConnection()

If you set the property failover=true in the JDBC URL or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or DataSource that start with "failover" overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

```
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500
```

To set more than one failover possibility, use the following syntax:

```
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
```

host[N] and port[N] must form pairs, otherwise they will be ignored.

10.2 Failover with Clusters

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the API documentation of the PoolManager.

10.3 Monitored Failover

With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tries to reconnect to the same server with the same properties. If reconnection was successful, all
Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again.<br/>
For more information see com.inet.pool.PoolManager.addFailoverListener(), com.inet.pool.FailoverListener,
com.inet.pool.FailoverEvent and sample.MonitoredFailover
</p>
</div>

<h3 id="configuration-via-connection-properties">10.3.1 Configuration via Connection properties</h3>
<div class="level3">
<p>
There are multiple possibilities about how to configure the Monitored Failover.<br/>
It is possible to use the default implementation of the FailoverListener or to use your own implementation.<br/>
The default FailoverListener is similar to the TimedFailoverListener in the samples package.<br/>
To every created Connection automatically an instance of the configured FailoverListener will be added.<br/>
Set a FailoverListener via Connection properties:<br/>
</p>
<div class="table ">
<table class="inline">
<tr class="row0">
<td class="col0"> name </td><td class="col1"> default </td><td class="col2"> description </td>
</tr>
<tr class="row1">
<td class="col0"> useDefaultFailoverListener </td><td class="col1"> false </td><td class="col2"> if set on true, a default FailoverListener will be added automatically to every Connection </td>
</tr>
<tr class="row2">
<td class="col0"> waitTimeToNextAttempt </td><td class="col1"> 500 </td><td class="col2"> property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt. </td>
</tr>
<tr class="row3">
<td class="col0"> totalTimeOfAttempts </td><td class="col1"> 30 </td><td class="col2"> property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished. </td>
</tr>
<tr class="row4">
<td class="col0"> failoverListener </td><td class="col1"> - </td><td class="col2"> the class name of your own FailoverListener implentation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection. </td>
</tr>
</table>
</div>
<p>
example URLs:<br/>
jdbc:inetpool:inetora:localhost?database=orcl&amp;useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=100&amp;totalTimeOfAttempts=10<br/>
For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

- com.inet.pool.PoolDriver
- com.inet.ora.PDataSource
- com.inet.tds.PDataSource
- com.inet.syb.PDataSource
- com.inet.drda.PDataSource.

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection. Example:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");

//add a FailoverListener
FailoverListener fl = new samples.monitored.Failover.MonitoredFailoverListener(99); con.addFailoverListener(fl);
```
class="sy0">;</span><br class="br0"/>

```java
(TMConnection con)
.addFailoverListener(fl);

//remove a FailoverListener
(TMConnection con).removeFailoverListener(fl);

//remove all FailoverListener
(TMConnection con).removeAllFailoverListener();

//get all registered FailoverListener
FailoverListener<FailoverListener> fls = getFailoverListener();
```

</div>

<h2 id="snapshot-transaction-isolation">11. Snapshot Transaction Isolation</h2>

The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- **Modify the database**
  
  You can modify the database with the following SQL statement<br/>
  <br/>
  ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON<br/>

- **initSQL**
  
  If you do not change the level at using of connection then you can set it at creation of the connection with:<br/>
  <br/>
  initSQL=`SET TRANSACTION ISOLATION LEVEL SNAPSHOT`<br/>

- **Executing a statement**
  
  You can also change it with the following Java line:<br/>
  <br/>
  conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");
Since version 6.08.04 you can also set it via API with:

```java
conn.setTransactionIsolation(4096);
```

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream( System.out ); DriverManager.setLogStream( new FileOutputStream(&quot;c:\driver.log&quot;) );</td>
<td>This method is deprecated but it work with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(PrintWriter)</td>
<td>DriverManager.setPrintWriter( new PrintWriter( System.out ) )</td>
<td>work not with JDBC 1.22 driver like i-net UNA</td>
</tr>
<tr>
<td>Application Server GUI</td>
<td><strong>WebLogic:</strong> Enable the JDBC logging in the server console on the node servers/mysserver/logging/JDBC <strong>JBoss:</strong> You can set it for every DataSource in the config file with:</td>
<td></td>
</tr>
<tr>
<td>myDataSource.setPrintWriter(PrintWriter)</td>
<td>myDataSource.setPrintWriter( new PrintWriter( System.out ) )</td>
<td>enable the logging only for connections from this DataSource</td>
</tr>
</tbody>
</table>

JDBC <abbr title="Uniform Resource Locator">URL</abbr> option "logging=true"
Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.

The latest support information are available at: http://www.inetsoftware.de/support

Support is available per email (replace at with @):

- Licensing, Pricing, Updates, ... sales at inetsoftware.de
- i-net UNA una at inetsoftware.de
- i-net SPRINTA sprinta at inetsoftware.de
- i-net OPTA opta at inetsoftware.de
- i-net MERLIA merlia at inetsoftware.de
- i-net GATE opta at inetsoftware.de
- i-net GATE3 merlia at inetsoftware.de
14. Documentation

You can find more documentation at:
http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm

15. Known problems

- SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int
  - possible workarounds are:
    - set integer values instead of Strings
    - use JDBC URL "jdbc:inetdae7a" - take care about no unicode support
    - set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types
- When using named pipes, setting timeout has no effect.
- When using named pipes, cancel() has no effect.
- The method getTableName() requires a cursor or the "for browse" statement.
- Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output" and the output value is "abc       " you receive the value "abc").
- The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.
- The following methods are not supported by this release:
  - PrepareStatement.setArray (int i, Array x)
If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:
Open Source Used In Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)

9664

a server-wide certificate on the computer with the MS SQL Server 2000.

Note: You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

WARNING: After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

the JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

16.1. Create a Certificate Request

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Run the Internet Services Manager that is located in the Administrative Tools folder.

Right-click on the Default Web Site node for the server and select Properties; from the context menu.


Click the Next button.
The "Create a new certificate" radio button should be selected. Click the "Next" button.

The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.

Click the "Next" button.

Enter your organization name and unit and click the "Next" button.

In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.

Enter your State and City. Click the "Next" button.

Accept the default file name of c:\certreq.txt and click the "Next" button.

Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.

Run Internet Explorer and enter the URL http://YourCertificateServer/certsrv.
Select &quot;Request a Certificate&quot; and click &quot;Next&quot;.

Select &quot;Advanced Request&quot; and click &quot;Next&quot;.

Select the PKCS#10 option and click &quot;Next&quot;.

Paste the text that you copied in notepad earlier into the &quot;Saved Request&quot; field, then click the &quot;Next&quot; button.

It will tell you the request is pending. Click on the home hyperlink at the top.

Run the Certificate Authority application that is located under Administrative Tools.

Click on Pending Requests. You'll see the request that you just made in there.

Right-click on the request and select All Tasks/Issue.

Now, go back to the computer that runs the SQL Server/IIS where you made the request from. Select the &quot;Check on pending certificate&quot; option and click the &quot;Next&quot; button.

You should see the &quot;Saved-Request Certificate&quot; in there now. Click the &quot;Next&quot; button.

Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Right-click on c:\certnew.cer in Explorer and select Install from the context menu.

Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the &quot;computer account&quot;.
16.4. Uninstalling a Certificate

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

- Start the MMC.EXE and add the Certificates snap-in for the "computer account".
- Select the Certificate in the "Personal" or "Own Certificate" Folder.
- Drop the Certificate.

16.5. Forcing Protocol Encryption

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

16.6 The Driver Option secureLevel

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
</tbody>
</table>
2 Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.

3 Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority.

---

<h2 id="changes">17. Changes</h2>


- For XA support the extended procedures was replaced with a NT-Service.
- The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.

<h3 id="changes-in-version-501-merlia-201-5-feb-2003">17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)</h3>

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.
- ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).
- A bug with wasNull() and getXXX( x, Calendar) was fixed.
- A bug with isFirst() in CachedRowSet was fixed.
- A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.
A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

A bug with CachedRowSet and setXXX was fixed. It works without clearParmeters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Method PoolManager.closeConnection(Connection) was added.

Errors in ResultSet.close() are caught now.

A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.

The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.
Connections with a read timeout are removed from the connection pool.

The return value of supportsStatementPooling() was changed.

A bug with a DataSource not from the JNDI and equals() was fixed.

The method getParameterMetaData() was implemented.

The methods setImpltran() and getImpltran() were added.

Timestamp objects can be created (read) faster with JDK 1.4.x now.

A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.

Datetime formats with short month and days like '1999-5-5' are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.

The AsciiStream always sends Ascii data (also in unicode mode).

The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.

The call setObject( x, value, Types.BIT ) accepts numeric Strings now.

The detecting of the default codepage of the SQL Server 2000 was changed.

The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.
The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.

The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(,) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter(x, Types.BOOLEAN) was added.

The synchronized from Connection.close() was removed.

The truncate of SP output parameter without input value on length 255 was fixed.

Support for SSL was added.

A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.

A NullPointerException with DataSources was fixed. The bug exists since
The methods setSecureLevel() and getSecureLevel() were added.

The regression that connect to MS SQL Server 6.5 fails was fixed.

The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.

A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.

The ClassNotFoundExption withh SSL on the console with JDK 1.3 was removed.

The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.

Fixes in isAfterLast and isBeforeFirst for empty Resultsets

A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since 5.03.01.

A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.

Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.

A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.

The wrong message "Statement.cancel:Statement is currently not running"; error with the latest security patch of MS was fixed. The bug exists since 5.03.01.

The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.

The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21.
<ul><li>The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01.</li><li>Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.</li><li>The methods setAppname() and getAppname() were added to the DataSources.</li><li>The methods setFulltran() and getFulltran() were added to the DataSources.</li><li>Support for the new protocol of SQLServer 2005 was added.</li><li>Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</li><li>Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</li><li>The property lastUpdateCount was added.</li><li>The sql state "100029" was changed to "07001". It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatement/CallableStatements.</li><li>A bug with Statement.cancel() and SSL and forceEncryption was fixed.</li></ul><h3 id="changes-in-version-603-6-oct-2004">17.9. Changes in Version 6.03  (6. Oct 2004)</h3><ul><li>A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.</li><li>The methods of DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.</li><li>Some changes on the time behavior after a call of cancel() or if a query timeout occurs.</li><li>The timing for resolving the instance name was changed.</li></ul>
The property WSID was added.

The restoring of the connection after an query timeout is faster now if the MS SQL Server does not need to roll back.

Support for the data type BIGINT in the method updateObject(i,x) was added.

The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.

If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.

An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.

An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.

Connection failover was expanded to set more than one failoverhost.

Added setLogging(String) and setProperty(String) to class TdsDataSource.

The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.

Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.

The bug in DataSource overwriting the original host/port information in failover case has been fixed.
The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.

A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCPoolproxy was also changed to version 1.04.

CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).

Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.

Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message &quot;Invalid object name&quot; had been issued by mistake.

The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.

Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

Method PoolManager.dispose() was added.

The exception &quot;Unknown TDS packet type: 18&quot; will not be thrown anymore.

Performance increasing: executing a prepared statement runs faster at the first execute call.

&quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.

The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int).

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).
<li>Reading out type money and type smallmoney from sql_variant column was fixed.</li>
</ul>


- New driver property "dstsave"
- Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)
- Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.
- Reading values from MONEY columns with getDouble() has been fixed to return correct values.
- Since version 6.05 CachedRowSet.populate(ResultSet) didn't worked. This is fixed now.
- There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.
- An excrescent stacktrace log output was removed. (SocketException)
- TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.
- Since version 6.05: If a statement was already prepared, executing it as batch failed.
- SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().
- Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.
- PreparedStatement setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and InputStream values in addition.
- since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.
<li class="level1">since 6.04.12, prepare end execute statements didn’t work with SQL Server 7.</li></ul>

<li class="level1">Multiple protocol changes to adapt driver to final SQL Server 2005. Fix the bug with transaction</li></ul>

<li class="level1">Adapted meta data requests to changes made in final SQL Server 2005.</li></ul>

<li class="level1">In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.</li></ul>


<ul>
<li class="level1">When the PreparedStatement contained a character sequence in SQL like &amp;#039;&amp;#8211;&amp;#039;, the parameters following were ignored.</li>
</ul>

<ul>
<li class="level1">Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC <abbr title="Uniform Resource Locator">URL</abbr>)</li>
</ul>

<ul>
<li class="level1">The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.</li>
</ul>

<ul>
<li class="level1">If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.</li>
</ul>

<ul>
<li class="level1">Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.</li>
</ul>

<ul>
<li class="level1">Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.</li>
</ul>

<ul>
<li class="level1">The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.</li>
</ul>

<ul>
<li class="level1">Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn’t regard the max data types of SQL Server 2005. An &quot;unknown type&quot; Exception was thrown before.</li>
</ul>

<ul>
<li class="level1">Only SQL Server 2005: PreparedStatement.setString with empty String value sends null instead of empty String.</li>
</ul>
Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error "column type XX is unknown".

An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeQueryXXX() was fixed. The exception could occur with an additional PreparedStatement pool.

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.executeUpdate() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.

If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method PoolManager.getConnection() is follow more the FIFO concept.
The method equals from TdsDataSource and its subclasses does not work after creating a connection. This was critical for the size of a pool.

The protocol of the transaction API was changed for the SQL Server 2005 to support MARS in future versions.

Support for MARS was added.

Data larger as 200 Megabyte are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.

The warnings of getTransactionIsolation() are ignored now.

The bulk transfer limit was reduced from 200 Megabyte to 100 Megabyte.

A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of dstSave was changed to true.
Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.

Transaction isolation snapshot was added.

The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.

ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.

PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.

The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.

A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.

A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.

The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.
Some protocol violations with the data type XML were fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000\n[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers."

A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.

Integrated Windows Authentication for TCP/IP connections was added.

An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.

The methods getFunctions and getFunctionColumns are now implemented.

The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.

Property statusRequest added.

An encoding bug with the XML data type of the SQL Server 2005 was fixed.

The following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran, impltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].

The error "The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly." with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.
The follow SQL "SELECT ts '2007-10-19 10:20:30.000'" returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.

A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator.".

Instances of PDataSource could not have been serialized.

<em>hostProcess</em> is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table <em>sysprocesses</em>. It is also used for JDBC logging.

With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>
[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".

A NullPointerException with deserialize of the CachedRowSet was fixed.

The methods deleteRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>
[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".

Fix a bug with Windows NT authentication and SQL Server 2005.

Connection property resultSetType added.

A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.

The error "Fatal error on prepare. Connection will be closed." which occurred with a very fast cancel() was fixed.

The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.

The error message "Could not find prepared statement with handle 0." was fixed.
The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.

The method DataSource.setUrl was added.

The call ResultSet.findColumn( "" ) did not find empty columns.

A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error "".

Some error handling was added for connecting to prevent problems in stress conditions.

The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.

A bug with large server certificates (>= 8KBit) was fixed. A connection was only possible with secureLevel=0.

There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.

Connection property resultSetType was not used for PreparedStatement and CallableStatement.

There could be a very rare exception "" with SQL Server 6.5 with the sql7 mode. with SQL Server 2005 when calling getConnection().

Classes DTCDatasource4 and PDatasource4 were added for 100% JDBC 4.0 compliance.

Empty strings in CacheRowSet changed to null values after serialization.
A very rare "ArrayIndexOutOfBoundsException: Array index out of range: 0" on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary key.

The inactive timeout of the PoolManager is now reset with every method call.

The property fastbatch was added.

A possible hanging in socket.skip() after a timeout or cancel was fixed.

An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.

Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.

The error "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.

Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.

Fixed some bugs in ParameterMetaData.

Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.

A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.

Fixed some bugs in setClientInfo(String,String) and optimized performance.

Removed the finalize() method from the Connection object.

Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to
return the right values with triggers.</li>
</div>
<li class="level1"><div class="li"> Fixed the very rare exception &quot;java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)&quot; on getConnection().</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.</div>
</li>
<li class="level1"><div class="li"> A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.</div>
</li>
<li class="level1"><div class="li"> With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.</div>
</li>
<li class="level1"><div class="li"> A memory leak in the DTCProxy was fixed.</div>
</li>
<li class="level1"><div class="li"> Long-running XA transactions were rolled back after 10 minutes under very rare conditions.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.</div>
</li>
<li class="level1"><div class="li"> Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div>
</li>
<li class="level1"><div class="li"> Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</div>
</li>
</ul>
</div>

- Added property packetSize and changed the default from server default to 8000.
- Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.
- Added JDBC URL property sqlxml.
- The method getClob() returned wrong data for data type VARCHAR(MAX).
- Changed the default value of impltran for PDataSource to false.


- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).
- A regression with ParameterMetaData note setting parameters was fixed.
- An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.
- A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

17.27. Changes in Version 8.03  (17. Apr 2013)
<li class="level1"> A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.</li>
</ul>
</div>

<ol class="level3">
<li class="level1"> Does not use the package sun.misc.* on Java 6 and newer.</li>
</ol>

<ol class="level3">
<li class="level1"> A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached</li>
<li class="level1"> Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</li>
<li class="level1"> Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.</li>
</ol>

<ol class="level3">
<li class="level1"> Added support for VNN (virtual network names) together with instance names.</li>
<li class="level1"> Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.</li>
<li class="level1"> No longer write the password to the driver log.</li>
<li class="level1"> Add the interface NtlmHandshake to support an external NTLM login source.</li>
</ol>
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AdventNet SNMPV3 Release 2.2.1

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src/plugin/urlfilter-automaton/lib/automaton.jar

dk.brics.automaton

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Anders Moeller
amoeller@brics.dk

src/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/clustering-carrot2/lib/violinstrings-1.0.2.jar

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src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.jar
src/plugin/clustering-carrot2/lib/carrot2-snowball-stemmers.jar
src/plugin/clustering-carrot2/lib/carrot2-util-tokenizer.jar
src/plugin/clustering-carrot2/lib/carrot2-local-core.jar

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src/plugin/response-json/lib/json-lib-2.2.2-jdk15.jar

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src/plugin/parse-pdf/lib/PDFBox-0.7.4-dev.jar

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src/plugin/parse-pdf/lib/JempBox-0.2.0.jar

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src/plugin/parse-pdf/lib/bcprov-jdk14-132.jar

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src/plugin/lib-xml/lib/jdom.jar

/*--
$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp $

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*/

src/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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/*

src/plugin/lib-xml/lib/saxpath.jar

*/

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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*/

dr/plugin/lib-xml/lib/xercesImpl.jar

ASF

XOM is a dual streaming/tree-based API for processing XML with Java. Copyright 2004, 2005, 2009, 2010 Elliotte Rusty Harold

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5.368 jlangdetect 0.1
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 * */
package com.lingway.ld;

import java.util.Arrays;
import java.io.Serializable;

/**
 * A gram tree is used to learn n-grams from texts, and is able to score a text.
 * The n-gram data is represented as a lexical tree. The representation is rather compact, but one could do better with annotated-DFAs.
 * Not thread-safe.
 * @author Cedric CHAMPEAU<cedric-dot-champeau-at-laposte.net>
 */
public class GramTree implements Serializable {

private final Node root;
private long gramcount;
private int min,max;

public GramTree(int min, int max) {
    root = new Node(' ');
    gramcount = 0;
    this.min = min;
    this.max = max;
}

public void learn(CharSequence text) {
    NGramTokenizer tokenizer = new NGramTokenizer(text, min, max);
    for (CharSequence token : tokenizer) {
        addGram(token);
    }
}

private void addGram(CharSequence gram) {
    Node cur = root;
    for (int i=0; i<gram.length();i++) {
        char c = gram.charAt(i);
        Node next = cur.getChild(c);
        if (next==null) next = cur.addTransition(c);
        cur = next;
        if (i==gram.length()-1) cur.inc();
    }
    gramcount++;
}
public void compress() {
    root.compress();
}

public double scoreText(CharSequence text, boolean explain) {
    NGramTokenizer tokenizer = new NGramTokenizer(text, min, max);
    double tot = 0;
    for (CharSequence charSequence : tokenizer) {
        double s = scoreGram(charSequence);
        if (explain) {
            System.out.println(charSequence + " scores " + s);
        }
        tot += s;
    }
    double score = tot / Math.log(gramcount);
    if (explain) {
        System.out.println(text + ", total " + tot + "/" + Math.log(gramcount) + "=" + score);
    }
    return score;
}

private double scoreGram(CharSequence gram) {
    Node cur = root;
    for (int i=0; i<gram.length();i++) {
        char c = gram.charAt(i);
        Node next = cur.getChild(c);
        if (next==null) return 0;
        cur = next;
    }
    return Math.log(cur.freq);
}

private static class Node implements Serializable, Comparable<Node> {
    private final static int DEFAULT_ALLOC = 64;
    char c;
    Node[] children;
    long freq;
    int childcount;

    private Node(char c) {
        this.c = c;
        this.freq = 0;
        this.childcount = 0;
    }

    public Node addTransition(char c) {
        Node child = new Node(c);
        return child;
    }
}
```java
if (children==null) {
    children = new Node[DEFAULT_ALLOC];
}
if (childcount==children.length-1) {
    // reallocate
    Node[] realloc = new Node[children.length+DEFAULT_ALLOC];
    System.arraycopy(children, 0, realloc, 0, children.length);
    children = realloc;
}
children[childcount] = child;
childcount++;
Arrays.sort(children, 0, childcount);
return child;

private void inc() {
    freq++;
}

public int compareTo(Node o) {
    return c-o.c;
}

public Node getChild(char c) {
    for (int i=0; i<childcount;i++) {
        if (children[i].c==c) return children[i];
        if (children[i].c>c) return null;
    }
    return null;
}

private void compress() {
    if (childcount==0) return;
    Node[] children2 = new Node[childcount];
    System.arraycopy(children,0,children2,0,childcount);
    children = children2;
    for (Node child : children) {
        child.compress();
    }
}
```

5.369 jline 0.9.94
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5.370 jmespath-java-1.11.620.jar 1.11.620

5.371 jna 4.5.2

5.372 jna-platform 4.1.0
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5.373 joda-time 2.10.2
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5.374 jose4j 0.5.1

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jose4j
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5.375 jpedal 4.92b23

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This the source code for the LGPL version of JPedal - a cutdown viewer from the full JPedal library

To compile the code, you will also need to download these jars and place in your build.dir
(jai_core.jar, jai_codec.jar, bcmail.jar, bcprov.jar)
Details on getting the jars can be found at http://www.jpedal.org/support_AddJars.php

The src directory contains the source code building JPedal (LGPL version). It is supplied without
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Additional JAR files required for compilation can be found at:
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<project name="jpedal" default="build" basedir=".">

<!-- ===================== Initialize Property Values =================== -->
<property name="build.compiler" value="modern"/>
<property name="build.dir" location="build"/>
<property name="example.dir" location="example"/>

<!-- the directory where your additional jar files are -->
<property name="lib.dir" location="../..//workspace/library"/>
<property name="dist.dir" location="dist"/>
<property name="src.dir" value="src"/>
<property name="bin.dir" value="bin"/>
<property name="api.dir" value="javadoc"/>
<property name="user.real" value="${user.name}"/>
<property name="example_javadocs.dir" value="example_javadocs"/>
<property name="debug" value="off"/>
<property name="deprecation" value="off"/>
<property name="optimize" value="off"/>
<property name="classpath" value="."/>
<property name="jpedal.jar" value="os_jpedal.jar"/>

<!-- ================== INITIALIZE: =============================== -->
<target name="init" depends="">

<delete dir="${build.dir}"/>
<delete dir="${dist.dir}"/>
<delete dir="${api.dir}"/>
<delete dir="${example_javadocs.dir}"/>
<delete dir="examples"/>
<delete dir="javadoc"/>

<!-- useful if you want to add if constructs into build.xml
<taskdef resource="net/sf/antcontrib/antcontrib.properties"/>
-->

<mkdir dir="${dist.dir}"/>
<mkdir dir="${build.dir}"/>
<mkdir dir="${build.dir}/${bin.dir}"/>
tstamp/>
</target>
<manifest>
<attribute name="Built-By" value="${user.real}" />
<attribute name="Main-Class" value="org.jpedal.examples.viewer.Viewer" />
</manifest>
</jar>
</target>

<!-- ================== DIST: create a build ===================
<target name="build" depends="jar">
</target>
</project>

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 * 
 * Brantley Harris technically wrote this plugin, but it is based somewhat
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* "NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.", a sentiment that
* I uphold. I really just cleaned it up.
*
* It is also based heavily on MochiKit's serializeJSON, which is
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5.377 js 1.7

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<jar name='xalan.jar' />
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5.379 json 20180813

5.380 json-patch 1.3

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5.389 jsr305 3.0.2

5.390 jul-to-slf4j 1.7.5

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5.392 junit 4.12
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### 5.393 junit-jupiter-api 5.0.1

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5.396 junit-platform-runner 1.5.2

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5.397 junit-platform-suite-api 1.6.0-M1

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5.398 junit_within-cglib 3.8.1

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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5.425 management-api 3.2.1

5.426 mchange-commons-java 0.2.15

5.427 mimepull 1.9.11

5.428 minimal-json 0.9.4

5.429 minimal-json 0.9.1

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5.430 mongo-java-driver 3.9.1
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### 5.442 netty-codec 4.1.38

### 5.443 netty-codec-dns 4.1.30.Final

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5.446 netty-common 4.1.30.Final

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5.447 netty-handler 4.1.38

5.448 netty-handler-proxy 4.1.30.Final

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Anders Moeller
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src/plugin/lib-xml/lib/jdom.jar

/"--

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/*

src/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

*/

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ASF

5.460 object-mapper 3.1.0

5.461 ojdbc14 10.2.0.2.0
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    description='Used to generate an OSGI compliant conf/MANIFEST.MF'>
    <jar name='bnd.jar' />
  </module>
  
  <module name='Bouncy castle'
    licenseType='bouncycastle'
    version='1.17'
    projectHome='http://www.bouncycastle.org'
    description='Encryption algorithms. Used by ENCRYPT and AUTH (runtime)'>
    <jar name='bouncycastle.jar' />
  </module>
  
  <module name='Beanshell'
    licenseType='lgpl (dual license, but LGPL may be chosen)'
    version='2.0b5'
    projectHome='http://www.beanshell.org'
    description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
    <jar name='bsh.jar' />
  </module>
  
  <module name='byteman'
    licenseType='LGPL 2.1'
    version='1.4.1'
    projectHome='http://byteman.sourceforge.net'
    description='Dynamic Bytecode Manipulation'>
    <jar name='byteman.jar' />
  </module>
  
  <module name='Callisto'
    licenseType='Mozilla Public License v1.1'
    version='1.0.0'
    projectHome='http://www.mozilla.org/products/calisto/
    description='Java development IDE'>
    <jar name='callisto.jar' />
  </module>
  
  <module name='Commons-utils'
    licenseType='Apache License Version 2.0'
    version='1.1'
    projectHome='http://commons.apache.org/commons-utils/'
    description='Common utility classes'>
    <jar name='commons-utils.jar' />
  </module>
  
  <module name='Commons-lang'
    licenseType='Apache License Version 2.0'
    version='2.4'
    projectHome='http://commons.apache.org/commonslang/
    description='A library of Java utility classes'>
    <jar name='commons-lang.jar' />
  </module>
  
  <module name='Commons-vfs'
    licenseType='Apache License Version 2.0'
    version='2.1'
    projectHome='http://commons.apache.org/commons-vfs/
    description='Creation and manipulation of file systems'>
    <jar name='commons-vfs.jar' />
  </module>
  
  <module name='ConcurrentBag'
    licenseType='Apache License Version 2.0'
    version='1.0.3'
    projectHome='http://mvn.apache.org/maven-core/ConcurrentBag/
    description='Provides a concurrent bag'>
    <jar name='concurrent-bag.jar' />
  </module>
  
  <module name='Commons-collections'
    licenseType='Apache License Version 2.0'
    version='2.1'
    projectHome='http://commons.apache.org/commons-collections/
    description='A library of common collection classes'>
    <jar name='commons-collections.jar' />
  </module>
  
  <module name='Commons-logging'
    licenseType='Apache License Version 2.0'
    version='1.1.3'
    projectHome='http://commons.apache.org/commons-logging/
    description='Logging libraries'>
    <jar name='commons-logging.jar' />
  </module>
  
  <module name='Commons-validator'
    licenseType='Apache License Version 2.0'
    version='1.2.3'
    projectHome='http://commons.apache.org/commons-validator/
    description='A library of common validation routines'>
    <jar name='commons-validator.jar' />
  </module>
  
  <module name='Commons-codec'
    licenseType='Apache License Version 2.0'
    version='1.3'
    projectHome='http://commons.apache.org/commons-codec/
    description='A library of common string encoding routines'>
    <jar name='commons-codec.jar' />
  </module>
  
  <module name='Commons-text'
    licenseType='Apache License Version 2.0'
    version='1.1.2'
    projectHome='http://commons.apache.org/commons-text/
    description='A library of common text processing routines'>
    <jar name='commons-text.jar' />
  </module>
  
  <module name='Commons-lang3'
    licenseType='Apache License Version 2.0'
    version='3.0'
    projectHome='http://commons.apache.org/commons-lang3/
    description='A modern set of utility classes'>
    <jar name='commons-lang3.jar' />
  </module>
  
  <module name='Commons-lang4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-lang4/
    description='A modern set of utility classes'>
    <jar name='commons-lang4.jar' />
  </module>
  
  <module name='Commons-codec3'
    licenseType='Apache License Version 2.0'
    version='3.1'
    projectHome='http://commons.apache.org/commons-codec3/
    description='A modern set of string encoding routines'>
    <jar name='commons-codec3.jar' />
  </module>
  
  <module name='Commons-codec4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-codec4/
    description='A modern set of string encoding routines'>
    <jar name='commons-codec4.jar' />
  </module>
  
  <module name='Commons-text3'
    licenseType='Apache License Version 2.0'
    version='3.1'
    projectHome='http://commons.apache.org/commons-text3/
    description='A modern set of text processing routines'>
    <jar name='commons-text3.jar' />
  </module>
  
  <module name='Commons-text4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-text4/
    description='A modern set of text processing routines'>
    <jar name='commons-text4.jar' />
  </module>
  
  <module name='Commons-url'
    licenseType='Apache License Version 2.0'
    version='1.4'
    projectHome='http://commons.apache.org/commons-url/
    description='URL utilities'>
    <jar name='commons-url.jar' />
  </module>
  
  <module name='Commons-configuration'
    licenseType='Apache License Version 2.0'
    version='1.2.2'
    projectHome='http://commons.apache.org/commons-configuration/
    description='A library of configuration classes'>
    <jar name='commons-configuration.jar' />
  </module>
  
  <module name='Commons-collections4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-collections4/
    description='A modern set of common collection classes'>
    <jar name='commons-collections4.jar' />
  </module>
  
  <module name='Commons-lang4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-lang4/
    description='A modern set of utility classes'>
    <jar name='commons-lang4.jar' />
  </module>
  
  <module name='Commons-codec4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-codec4/
    description='A modern set of string encoding routines'>
    <jar name='commons-codec4.jar' />
  </module>
  
  <module name='Commons-text4'
    licenseType='Apache License Version 2.0'
    version='4.1'
    projectHome='http://commons.apache.org/commons-text4/
    description='A modern set of text processing routines'>
    <jar name='commons-text4.jar' />
  </module>
  
  <module name='j2objc-api'
    licenseType='Apache License Version 2.0'
    version='0.9'
    projectHome='http://j2objc.org詹
    description='Java to Objective-C API'>
    <jar name='j2objc-api.jar' />
  </module>
  
  <module name='j2objc-stdlib'
    licenseType='Apache License Version 2.0'
    version='0.9'
    projectHome='http://j2objc.org詹
    description='Java to Objective-C standard library'>
    <jar name='j2objc-stdlib.jar' />
  </module>
  
  <module name='j2objc-util'
    licenseType='Apache License Version 2.0'
    version='0.9'
    projectHome='http://j2objc.org詹
    description='Java to Objective-C utility classes'>
    <jar name='j2objc-util.jar' />
  </module>
  
  <module name='tomcat-util'
    licenseType='Apache License Version 2.0'
    version='8.5.31'
    projectHome='http://tomcat.apache.org/utilities/
    description='Utilities for Tomcat'>
    <jar name='tomcat-util.jar' />
  </module>
  
  <module name='tomcat-util3'
    licenseType='Apache License Version 2.0'
    version='9.0.61'
    projectHome='http://tomcat.apache.org/utilities/
    description='Utilities for Tomcat'>
    <jar name='tomcat-util3.jar' />
  </module>

</thirdparty-licenses>
version='2.1.0'
    projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman.jar' />
</module>

<module name='byteman-bmunit'
    licenseType='LGPL 2.1'
    version='2.1.0'
    projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-bmunit.jar' />
</module>

<module name='byteman-install'
    licenseType='LGPL 2.1'
    version='2.1.0'
    projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-install.jar' />
</module>

<module name='byteman-submit'
    licenseType='LGPL 2.1'
    version='2.1.0'
    projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-submit.jar' />
</module>

<module name='creative-commons'
    licenseType='creative-commons'
    version='2.5'
    projectHome='http://creativecommons.org/licenses/by/2.5/
    description='Annotations of JCIP'>
  <jar name='none (part of src tree: org.jgroups.annotations)' />
</module>

<module name='log4j'
    licenseType='apache-2.0'
    version='1.2.14'
    projectHome='http://logging.apache.org/
    description='Java logging framework (runtime)'>
  <jar name='log4j.jar' />
</module>

<module name='serializer'
    licenseType='apache-2.0'
    version='1.6.5'
    projectHome='http://ant.apache.org/
    description='ANT (compile time), needed for generation of test reports'>
  <jar name='serializer.jar' />
</module>

<module name='testng'
    licenseType='apache-2.0'
    version='6.8'
    projectHome='http://www.testng.org'
    description='Used for unit testing'>
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JUnit test library (junit-3.8.1.jar)

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5.463 opencensus-contrib-http-util 0.19.2

5.464 opensaml 2.6.6
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5.465 opensso_props.jar 1.7.0_11

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JUnit test library (junit-3.8.1.jar)

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Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
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Jon Stevens <jon at collab.net> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode
character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance
improvements to Perl5Substitution as well as adding support for
\UuLlE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

5.477 oroinc_regex 1.3.0

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Version 3, 29 June 2007


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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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is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(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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it.

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the Library into a program that is not a library.

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derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany

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it with the complete corresponding machine-readable source code, which

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must be distributed under the terms of Sections 1 and 2 above on a

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medium customarily used for software interchange.

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If distribution of object code is made by offering access to copy

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from a designated place, then offering equivalent access to copy the

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source code from the same place satisfies the requirement to

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distribute the source code, even though third parties are not

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compelled to copy the source along with the object code.

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5. A program that contains no derivative of any portion of the

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Library, but is designed to work with the Library by being compiled or

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linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and

therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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.

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
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Any executables containing that work also fall under Section 6,

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freemarker/ext/jsp/web-app_2_3.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd

Historical notes

FreeMarker 1.x was released under the LGPL license. Later, by
community consensus, we have switched over to a BSD-style license. As
of FreeMarker 2.2pre1, the original author, Benjamin Geer, has
relinquished the copyright in behalf of Visigoth Software Society.

With FreeMarker 2.3.21 the license has changed to Apache License, Version 2.0, and the owner has changed from Visigoth Software Society to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel Dekany, and Jonathan Revusky.

1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries
* mvn compile: Compiles java source code.
* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".
* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/
* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.
* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue,
simply switch
to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition
which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download
(in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your
WebDAV
username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you
have
a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code
coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release
-----------------------------------------------------------------------------------------------

You will also have to configure maven to use your username and password to access the repository. For this, you
will
have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or
~/.m2/settings.xml).
Something similar to the following should be added:

<settings>

...

<servers>

...

<server>
  <id>jboss-developer</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-snapshots</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
<server>
  <id>jboss-releases</id>
  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
1.3. Deploying a release to a live repository
---------------------------------------------

Very simple. Make sure you have the version number in your pom.xml set to a non-SNAPSHOT version. Maven
will pick up
on this and deploy to your release repository rather than the snapshot repository.

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to

https://repository.jboss.org/nexus

After verifying the POM and the artifacts in Nexus, you can then close the repository and push the release live.

2. TESTING
==========

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group
acts as
a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are
currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------
* unit - Unit tests using stubs to isolate and test each major class in JBoss Cache. This is the default group run if no
test group is specified.
* functional - Tests which test the general functionality of JBoss Cache
* jgroups - Tests which need to send data on a JGroups Channel
* transaction - Tests which use a transaction manager
* profiling - Tests used for manual profiling, not meant for automated test runs
* manual - Other tests that are run manually
* integration - Integration tests emulating usage patterns for specific products such as JBoss AS Clustering and
Hibernate clustering

It should be noted that every test (except those not intended to be run by Hudson) should at least be in the functional
group, since this is the default test group that is executed by maven, and the one that is required to prepare a release.

2.2. Executing the default test run
-----------------------------------

The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:
$ mvn test

Alternatively, you can execute the tests AND generate a report with:

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, like so:

$ mvn surefire-report:report-only

2.3. Executing different groups
-----------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.4. Executing a single test
-----------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package name) of the test.

$ mvn -P test-XXX -Dtest=FqnTest test

Alternatively, if there is more than one test with a given classname in your test suite, you could provide the path to the test.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/SyncReplTxTest test

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/*/ test

2.6. Skipping the test run
--------------------------
It is sometimes desirable to install the jboss cache package in your local repository without performing a full test run.
To do this, simply use the maven.test.skip.exec property:

$ mvn -Dmaven.test.skip.exec=true install

Again, this is just a shortcut for local use. It SHOULD NEVER BE USED when releasing. Also, make sure "exec" is included in the property, if not the tests will not be built, which will prevent a test jar being produced (POJO Cache needs the
Core Cache test jar).

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE
-----------------------------------------------------------
Sometimes you want to run a test using settings other than the defaults (such as UDP for "jgroups" group tests or the DummyTransactionManager for "transaction" group tests). This can be achieved by referring to the Maven POM file to figure out which system properties are passed in to the test when doing something different.

E.g., to run a "jgroups" group test in your IDE using TCP instead of the default UDP, set the following:

-Djgroups.stack=tcp

Or, to use JBoss JTA (Arjuna TM) instead of the DummyTransactionManager in a "transaction" group test, set:

-Dorg.jboss.cache.test.tm=jboss-jta

Please refer to the POM file for more properties and permutations.

2.9. Integration with CruiseControl / Hudson
-----------------------------------------------
CruiseControl should do the following:

* Run "mvn clean site" - will clean and run tests, and then prepare reports. In addition to unit tests, this project is set up to run FindBugs, PMD, jxr, and a bunch of other code analysis tools and provide a report in target/site/project-reports.html - which should be linked from the CruiseControl summary page.
1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/

* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
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* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)
* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

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You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file (MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

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<settings>
...

<servers>
...

<server>
  <id>jboss-developer</id>
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<server>
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  <username>jboss.org username</username>
  <password>jboss.org password</password>
</server>
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...

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target/site/project-reports.html - which should be linked from the CruiseControl summary page.
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library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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.

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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* Documentation Location
* Third-Party Component Notices

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root function must still compute square roots.)

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You may also find the latest copy of the documentation on the MySQL website at http://dev.mysql.com/doc/refman/5.1/en/connector-j.html

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When a program is linked with a library, whether statically or using

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a shared library, the combination of the two is legally speaking a

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combined work, a derivative of the original library. The ordinary

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General Public License therefore permits such linking only if the

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entire combination fits its criteria of freedom. The Lesser General

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Public License permits more lax criteria for linking other code with

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the library.

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We call this license the "Lesser" General Public License because it

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does Less to protect the user's freedom than the ordinary General

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Public License. It also provides other free software developers Less

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of an advantage over competing non-free programs. These disadvantages

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programs enables a greater number of people to use a large body of

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free software. For example, permission to use the GNU C Library in

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non-free programs enables many more people to use the whole GNU

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operating system, as well as its variant, the GNU/Linux operating

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system.

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Although the Lesser General Public License is Less protective of the

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linked with the Library has the freedom and the wherewithal to run

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Open Source Used In Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)

11594
Open Source Used In Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)

11597
Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

...
<p>Version: 8.06<br>Last Modified: 15. Apr 2015</p>

</div>
<div class="level2">

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<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#using-the-driver-in-a-java-application" class="inlinetoc">1.1 Using the Driver in a Java Application</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#using-the-driver-in-an-applet" class="inlinetoc">1.2 Using the Driver in an Applet</a></span></div></li>
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<li class="level4"><div class="li"><span class="li"><a href="#implemented-driver-properties" class="inlinetoc">For implemented-driver-properties</a></span>
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</li>
</ul>
</div>
</ul>
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<li>PooledDriver.java</li>
<li>WithDataSource.java</li>
<li>WithPoolDataSource.java</li>
<li>WithPoolManager.java</li>
<li>WithJDBCRowSet.java</li>
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<li>WithSample.xa</li>
</ul>

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<ul>
<li>Date and Time</li>
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</ul>

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5.1 JDBC 4.0 API

6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

6.2 New Datatypes with SQL Server 2005

6.3 New Datatypes with SQL Server 2008

7. PreparedStatement Performance and Data Type Mapping

7.1 Data Type Precedence

7.2 Data Type Mapping

7.3 The Performance Problem

7.4 Numeric columns and SQL Server 2000 SP4

8. Scrolling Cursor Types

9. Locking and Concurrency Control

10. Failover

10.1 Failover on getConnection()

10.2 Failover with Clusters

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10.4 Configuration via Connection properties

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14. Documentation

15. Known problems

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- Create a Certificate with the Certificate Server
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- Forcing Protocol Encryption
- The Driver Option secureLevel

17. Changes

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- Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)
- Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)
- Changes in Version 5.03.01 (MERLIA 2.03.01)
- Changes in Version 5.04.01 (MERLIA 2.04.01)
- Changes in Version 6.01 (1. Apr 2004)
17.27. Changes in Version 8.03 (17. Apr 2013)
17.29. Changes in Version 8.05 (9. Apr 2014)

Copyright
1. Installation

The zip file of the driver includes a jar file. The jar file is named like the driver (una.jar, sprinta.jar, opta.jar or merlia.jar). You need to add this jar file to your classpath or extract the jar file in the directory of the application.

1.2 Using the Driver in an Applet

Add the driver jar file to the archive attribute of the applet tag, e.g.:

```html
&lt;APPLET class="CODE" Codebase="&quot;...&quot; ARCHIVE=&quot;Merlia.jar&quot; WIDTH=100% HEIGHT=100%&gt;
...
</APPLET&gt;
```

or extract the jar in the directory of the applet.

2. Getting Started

2.1 SQL Server, Java and JDBC Versions

<table>
<thead>
<tr>
<th>SQL Server</th>
<th>Java Version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017 Edition</td>
<td>8.0.2.18</td>
<td>4.3.17.2001</td>
</tr>
<tr>
<td>2014 Edition</td>
<td>7.0.9.1</td>
<td>4.3.17.2001</td>
</tr>
</tbody>
</table>
All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
- Microsoft SQL Server 2008
- Microsoft SQL Server 2005
- Microsoft SQL Server 2000
- Microsoft SQL Server 7.0
- Microsoft SQL Server 6.5

with all Service Packs (32 bit / 64 bit)
<table>
<thead>
<tr>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API 1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Multiple Open ResultSets per Statement - Yes

ResultSet Holdability - Yes

A more complete list can be found at:
http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.
For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet <span class="sy0">hostname</span> or <span class="kw2">ip</span> address <span class="sy0">port number</span>
```

If the connection is refused then the hostname or the port number is incorrect.

The SQL Server supports three authentication types. These are:

SQL Server authentication

Windows NT authentication (trusted connection)

Mixed (or both) authentications

Windows authentication will only work from a Windows client from the same domain. It is also required that your program runs with a user account that has access to the SQL Server. If you want to connect from another client or account then you need to use an SQL Server login, in which case you need to enable SQL Server authentication or Mixed authentication. To verify the authentication type:

Select the SQL Server in the Enterprise Manager.
<li>Open the properties dialog</li>
<li>Select the security tab</li>

If you want to use "Windows NT authentication" with i-net software's drivers then the username must be empty. This only works with SQL Server 7.0 or higher and from a Windows client. Together with Named Pipes connections you can use Windows NT authentication since Java version 1.1.7. Together with TCP/IP connections, you can use it since Java version 1.4.2_03 and driver version 7.01.

<h3>2.5 Driver Class Name</h3>

The class name of the driver is: <strong>com.inet.tds.TdsDriver</strong>

The name of the pooled driver is: <strong>com.inet.pool.PoolDriver</strong>

The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA

<table>
<thead>
<tr>
<th>DataSource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.inet.tds.TdsDataSource</td>
<td>This is a simple DataSource. Also named JDBC 1 DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.PDataSource</td>
<td>This is pooled DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.DTCDatasource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the the DTCPProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>
For a list of DataSource Properties look in the API documentation.

2.6 JDBC URL Subprotocols

- jdbc:inetdae7:.hostname:portnumber?database=MyDb&amp;language=us_english: SQL Server 7.0 (or higher) feature with support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&amp;sql7=true)

- jdbc:inetdae7a: hostname:portnumber: support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 API compliance is required. see character converting JDBC 4.0 API.

- jdbc:inetdae6: hostname:portnumber: SQL Server 6.5 compatible mode (passwords are transferred plainly)

- jdbc:inetdae: hostname:portnumber?database=MyDb&amp;language=us_english: only for compatibility with older versions

- jdbc:inetpool: hostname:portnumber: pooled driver (only OPTA and MERLIA)

2.7 JDBC URL Syntax of the driver

- jdbc:inetdae7:hostname:portnumber: with default port 1433

The pooled driver is only part of OPTA and MERLIA.

Examples:

- `jdbc:inetpool:inetdae7:www.inetsoftware.de:1433`
- `jdbc:inetpool:inetdae7:localHost:1433`
- `jdbc:inetdae7:210.1.164.19:1433`
- `jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433`
- `jdbc:inetpool:jdbc:inetdae7:localHost:1433`
## 2.9 Implemented Driver Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>database</td>
<td>default is the user default database</td>
</tr>
<tr>
<td>language</td>
<td>default is '' →SQL Server default language</td>
</tr>
<tr>
<td>user</td>
<td>the database user, if empty the current windows user is used</td>
</tr>
<tr>
<td>password</td>
<td>password of the database user</td>
</tr>
<tr>
<td>charset</td>
<td>see Character Converting</td>
</tr>
<tr>
<td>initSQL</td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>logging</td>
<td>default is &quot;false&quot; If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.</td>
</tr>
<tr>
<td>Property</td>
<td>Default</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>sql7</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>secureLevel</td>
<td>default is 1</td>
</tr>
<tr>
<td>prepare</td>
<td>default is &quot;true&quot;</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>default is 60</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is</td>
</tr>
</tbody>
</table>
The method `getObject()` converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type `JAVA_OBJECT` but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use `getBytes()` and not `getObject()`.

> Application name (only Application and Enterprise licenses)

<table>
<thead>
<tr>
<th>appname</th>
<th>Application name (only Application and Enterprise licenses)</th>
</tr>
</thead>
</table>
| WSID    | Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method `HOST_NAME()`.
| useCurssorsAlways | `true` - the method `executeQuery` always uses server cursors.
| resultSetType | `1003` (ResultSet.TYPE_FORWARD_ONLY)
| useInsteadOfTrigger | `false` - in a query with multiple tables all are updated in one step with `updateRow()`. You need a INSTEAD OF trigger.
| impltran | with Driver the default is `true` for compatibility with the JDBC-ODBC bridge.
| fulltran | with `DataSource` the default is `false` to reduce deadlock problems. If the value is true then the method `setTransactionIsolation()` will call `setAutoCommit(false)` implicitly and start a transaction.

If the value is true then the method `setTransactionIsolation()` will call `setAutoCommit(false)` implicitly and start a transaction.
<table>
<thead>
<tr>
<th>Column</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dstsave</td>
<td>Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the API requests the status of a connection. There are 2 possible modes:  * safe (default) - an additional round trip to the database is executed.  * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()</td>
</tr>
<tr>
<td>fastbatch</td>
<td>Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr>
<td>host</td>
<td>override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property &quot;instance&quot;.</td>
</tr>
<tr>
<td>instance</td>
<td>override the value in the JDBC URL, required the UDP port 1434</td>
</tr>
<tr>
<td>port</td>
<td>override the value in the JDBC URL</td>
</tr>
<tr>
<td>failover</td>
<td>see chapter &quot;Failover on getConnection()&quot;</td>
</tr>
<tr>
<td>mars</td>
<td>Enables (&quot;true&quot;) or disables (&quot;false&quot;) the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched</td>
</tr>
</tbody>
</table>
on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.

| packetSize | Sets the network packet size. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096. |
| mode       | Only for DataSources. The value is equals to the JDBC sub protocol. See the API documentation for more details. |

There are three ways to put the properties to the driver:

1. Append the properties to the URL like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch
2. Call method getConnection(String url, Properties info) from the driver manager.
3. Create a DataSource and set the properties with the set methods.

2.10 Connections to the MSDE 2000 Release A

You need to enable Mixed Authentication; and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD="password" SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

Comments of the switches:

- SAPWD=&quot;password&quot; Set the password for the sa account. This is required for Windows Server 2003.
SECURITYMODE=SQL
Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non Windows program like Java.

DISABLENETWORKPROTOCOLS=0
Enable the TCP/IP protocol

2.11 Connection Examples
Eight examples are included in the download file.

ClassicDriver.java
An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)

PooledDriver.java
This example shows the use of the PoolDriver. A driver with internal connection pooling.

WithDataSource.java
How to create a connection with a datasource.
WithPoolDataSourece.java

How to use the PooledConnection of the driver.

WithPoolManager.java

This demonstrates the use of the PoolManager i-net PLEXA®; i-net PLEXA®; is an example of a pool manager. i-net PLEXA® comes with i-net OPTA®;

WithJDBCRowSet.java

How to use the JDBCRowSet from i-net software (i-net OPTA®;).

WithJNDI.java

This demonstrates the use of a DataSource with a JNDI directory.

WithJndiAndPoolManager.java

This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA®;).
A sample with EJB and a XADataSource.

Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or higher. Named pipes are equal to files with a UNC path. We have tested named pipes only with the Win32 VM from Sun. If you want to use named pipes from another platform, you have to install SMB (server message block) on the client or you must install NFS (network file system) on the SQL server.

The default pipe of the SQL server is "sql/query", but you can change this pipe name in the server network manager.

The driver implements all escape clauses as follows:

```java
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}
```

The driver implements all escape clauses as follows:

```java
{call storedProcedures(Param1,Param2,...)}
```
{? = call storedProcedures(&#039;Param1&#039;,[&#039;Param2&#039;],[?])}</pre>

<p>examples:</p>

<pre class="code java">
st &lt;span class="sy0">=</span>&lt;span class="me1">createStatement</span>&lt;span class="br0"&gt;&lt;span class="br0"&gt;&lt;span class="sy0">execute</span>&lt;span class="br0"&gt;&lt;span class="st0"&gt;&lt;span class="sy0"&gt;&lt;pre class="code java">
st &lt;span class="sy0">=</span>&lt;span class="me1">createStatement</span>&lt;span class="br0"&gt;&lt;span class="br0"&gt;&lt;span class="sy0">execute</span>&lt;span class="br0"&gt;&lt;span class="st0"&gt;&lt;span class="sy0"&gt;&lt;pre class="code java">
examples:

<pre class="code java">st &lt;span class="sy0">=</span>&lt;span class="me1">createStatement</span>&lt;span class="br0"&gt;&lt;span class="br0"&gt;&lt;span class="sy0">execute</span>&lt;span class="br0"&gt;&lt;span class="st0"&gt;&lt;span class="sy0">execute
</pre>

<h3 id="functions">4.3 Functions</h3>

<div class="level3">
<p>Numeric Functions</p>
</div>

<pre class="code">
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
</code>
Time and Date Functions

```
{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTNNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPADD(interval, datetime, datetime2)}
```

interval may be one of the following:

```
SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR
```

<h3 id="outer-join">4.4 Outer Join</h3>

```
{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}
```
4.5 Encrypt

```java
{encrypt N#password#}
```

5. Character Converting

By default character converting is disabled. To use character converting in the driver you need to append `charset=YourCharSet` to the url.

```
for example: 
&quote;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;<br/>
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; +
sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();
```

TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.

You can test the availability of a character set with:
```
&quote;test string&quot;.getBytes( charset );
```

If this line executes correctly the character set is available in the current VM.

The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this columns you need to use the character N.

Example: 
```
&quote;INSERT INTO myTable(ntext field) VALUES( N#national text# )&quot;
```

5.1 JDBC 4.0 API

JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. `PreparedStatement.setNString(int, String)`. All previous functions like `PreparedStatement.setString(int, String)` are reduced to support ASCII characters only. If you need this compatibility then you have to use `&quot;inetdae7a&quot; subprotocol.`

If you want all String setter functions support unicode characters, use `&quot;inetdae7&quot; subprotocol.`
6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvarchar, bigint, variant, varchar larger than 255 characters.

You can use the new datatypes if you use the jdbc url "jdbc:inetdae7:..." or set the property sql7=true.

If you set the property sql7=true you will not be able to connect to the SQL Server 6.5.

If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.

-8 - NCHAR

-9 - NVARCHAR

-10 - NTEXT

-11 - UNIQUEIDENTIFIER

-150 - SQL_VARIANT

6.2 New Data types with SQL Server 2005
SQL Server 2005 supports the following new data types:

- **XML**

and the enhanced data types:

- **Varchar(max)**
- **NVarchar(max)**
- **Varbinary(max)**

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of the SQL Server 2005 (Yukon) you don't need to use a new sub protocol or set a special property.

If connecting to a SQL Server 2005, the driver switches to the new communication protocol and the new data types will be enabled automatically internal.

With version 8 of the driver i-net Opta and i-net Merlia supports the following new data types of SQL Server 2008 and returns Java objects:

- **DATE**
- **TIME**
- **DATETIME2**
The other new data types:

- GEOGRAPHY
- GEOMETRY
- HIERACHYID

are serialized .NET objects. There is no equivalent in Java currently. The values return as binary (byte array). If you want to use these values in Java then contact the support. We will help you with a solution.

---

**7. PreparedStatement Performance and Data Type Mapping**

**7.1. Data Type Precedence**

When two expressions of different data types are combined by an operator, the rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:
<li class="level1"><div class="li"> float</div></li>
<li class="level1"><div class="li"> real</div></li>
<li class="level1"><div class="li"> decimal</div></li>
<li class="level1"><div class="li"> money</div></li>
<li class="level1"><div class="li"> smallmoney</div></li>
<li class="level1"><div class="li"> bigint</div></li>
<li class="level1"><div class="li"> int</div></li>
<li class="level1"><div class="li"> smallint</div></li>
<li class="level1"><div class="li"> tinyint</div></li>
<li class="level1"><div class="li"> bit</div></li>
<li class="level1"><div class="li"> ntext</div></li>
<li class="level1"><div class="li"> text</div></li>
<li class="level1"><div class="li"> image</div></li>
<li class="level1"><div class="li"> timestamp</div></li>
<li class="level1"><div class="li"> uniqueidentifier</div></li>
<li class="level1"><div class="li"> nvarchar</div></li>
<li class="level1"><div class="li"> nchar</div></li>
<li class="level1"><div class="li"> varchar</div></li>
<li class="level1"><div class="li"> char</div></li>
<li class="level1"><div class="li"> varbinary</div></li>
<li class="level1"><div class="li"> binary (lowest)</div></li>

<h3 id="data-type-mapping">7.2 Data Type Mapping</h3>
If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
</tbody>
</table>
| setString | &8656; 4000 NVARCHAR<br/>
&8656; 4000 NTEXT<br/>
&8656; 8000 VARCHAR<br/>
&8656; 8000 TEXT<br/> | ..                                       |
| setAsciiStream | &8656; 8000 VARCHAR<br/>
&8656; 8000 TEXT<br/> | ..                                       |
| setClob  | &8656; 4000 NVARCHAR<br/>
&8656; 4000 NTEXT<br/>
&8656; 8000 VARCHAR<br/>
&8656; 8000 TEXT<br/> | ..                                       |
| setBlob  | &8656; 4000 NVARCHAR<br/>
&8656; 4000 NTEXT<br/>
&8656; 8000 VARCHAR<br/>
&8656; 8000 TEXT<br/> | ..                                       |

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If you use a set method that maps to a data type with a higher precedence, then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server cannot use an existing index because it was created for a different data type. The execution will be slow.

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case, the MS SQL Server can detect that it can convert downward the static parameter.

Solutions:
1. Use the correct set method.
2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks like:

\[ \text{cast(? as TINYINT)} \]

3.) Change the data type of the table.

---

**7.4 Numeric columns and SQL Server 2000 SP4**

BigDecimal parameter send by driver will be processed up to 20% slower. This happens if parameter definition send by Driver does not match exactly the column type. For example Driver sends parameter as 
\[ \text{"decimal(38,36)"} \] the column type is \[ \text{"numeric (7,0)"} \]. It seems that the index for the numeric column won’t be used with SP4. With SQL Server 2005 or earlier SQL Server version such a behavior was not seen. A workaround for that problem is to cast to column type.  
E.g. \[ \text{"select * from testnumeric where a = CAST(? AS numeric(7,0))"} \]

---

**8. Scrolling Cursor Types**

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward A forward only cursor with activated optimization.</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>Insensitive keyset cursor Use a concurrency of CONCUR_READ_ONLY. SQL Server will generate a temporary table, so changes made to the rows by others will not be visible through the cursor. The fetch functions will allow all fetchtype values.</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor The fetch functions will allow all fetchtype values.</td>
</tr>
</tbody>
</table>

---

Open Source Used In Unified Contact Center Enterprise, Hosted and Packaged 12.5(1)
fetch functions will allow all fetchtype values. </td>
</tr>
<tr class="row5">
<td class="col0"> TYPE_SCROLL_SENSITIVE+1 </td><td class="col1"> Dynamic cursor </td><td class="col2"> The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods returns always false. </td>
</tr>
</table></div>

<h2 id="locking-and-concurrency-control">9. Locking and Concurrency Control</h2>

Concurrency type is one of the following concurrency control options.

Concurrency type</strong> </td><td class="col1"> <strong>Description</strong> </td>
</tr>
<tr class="row1">
<td class="col0"> CONCUR_READ_ONLY </td><td class="col1"> Read-only cursor. You cannot modify rows in the cursor result set. </td>
</tr>
<tr class="row2">
<td class="col0"> CONCUR_UPDATABLE </td><td class="col1"> Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available. </td>
</tr>
<tr class="row3">
<td class="col0"> CONCUR_UPDATABLE+1 </td><td class="col1"> Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed. </td>
</tr>
<tr class="row4">
<td class="col0"> CONCUR_UPDATABLE+2 </td><td class="col1"> Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values. </td>
</tr>
</table></div>

<h2 id="failover">10. Failover</h2>
If you set the property failover=true in the JDBC URL or in a DataSource then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC URL or DataSource that start with "failover" overwrite the properties from the first connection. All other properties will still be in effect. Therefore you can set all or only some properties (e.g. host, port, instance user, password) for the failover connection.

For example:

```
jdbc:ineda7://YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2
```

To set more than one failover possibility, use the following syntax:

```
jdbc:ineda7://YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort
```

host[N] and port[N] must form pairs, otherwise they will be ignored.

With the interface FailoverRunnable you have the possibility to write program code that will be executed correctly in the case of a failure of the cluster server, also. You can configure it with the methods setFailoverTimeout() and setFailoverCount(). For more information please refer to the API documentation of the PoolManager.

With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tries to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again.

For more information see com.inet.pool.PoolManager.addFailoverListener(), com.inet.pool.FailoverListener,
There are multiple possibilities about how to configure the Monitored Failover. It is possible to use the default implementation of the FailoverListener or to use your own implementation. The default FailoverListener is similar to the TimedFailoverListener in the samples package.

To every created Connection automatically an instance of the configured FailoverListener will be added.

Set a FailoverListener via Connection properties:

<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
<tr>
<td>failoverListener</td>
<td>-</td>
<td>the class name of your own FailoverListener implentation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection.</td>
</tr>
</tbody>
</table>

Example URLs:

```
jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10
```
For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

example:

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");

//add a FailoverListener
FailoverListener fl = new samples.MonitoredFailover();
con.addFailoverListener(fl);
```

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection.
11. Snapshot Transaction Isolation

The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

1. **Modify the database**
   - You can modify the database with the following SQL statement:
   ```sql
   ALTER DATABASE <database name> SET ALLOW_SNAPSHOT_ISOLATION ON
   ```

2. **initSQL**
   - If you do not change the level at using of connection then you can set it at creation of the connection with:
   ```java
   initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
   ```

3. **setTransactionIsolation**
   - Since version 6.08.04 you can also set it via API with:
   ```java
   conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");
   ```
conn.setTransactionIsolation(4096);

</div>
</li>
</ol>
</div>
</div>

<h2 id="debugging">12. Debugging</h2>
<div class="level2">
<p>If you have problems with the driver then you can enable the logging of the driver. There are different solutions.
</p>
<div class="table " style="display: table;">
<table class="inline">
<tr class="row0">
<td class="col0"> <strong>Solutions</strong> </td><td class="col1"> <strong>examples</strong> </td><td class="col2"> <strong>Comments</strong> </td>
</tr>
<tr class="row1">
<td class="col0"> DriverManager.setLogStream(PrintStream) </td><td class="col1"> DriverManager.setLogStream( System.out );DriverManager.setLogStream( new FileOutputStream("c:\;\driver.log") ); </td><td class="col2"> This method is deprecated but it work with all JDBC drivers. </td>
</tr>
<tr class="row2">
<td class="col0"> DriverManager.setPrintWriter(PrintWriter) </td><td class="col1"> DriverManager.setPrintWriter( new PrintWriter( System.out ) ) </td><td class="col2"> work not with JDBC 1.22 driver like i-net UNA </td>
</tr>
<tr class="row3">
<td class="col0"> Application Server <abbr title="Graphical User Interface">GUI</abbr> </td><td class="col1"> WebLogic: Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC; JBoss: You can set it for every DataSource in the config file with: <br/>
.... &lt;br&gt;
</td><td class="col2"> </td>
</tr>
<tr class="row4">
<td class="col0"> myDataSource.setPrintWriter(PrintWriter) </td><td class="col1"> myDataSource.setPrintWriter( new PrintWriter( System.out ) ) </td><td class="col2"> enable the logging only for connections from this DataSource </td>
</tr>
<tr class="row5">
<td class="col0"> JDBC <abbr title="Uniform Resource Locator">URL</abbr> option "logging=true" </td><td class="col1"> jdbc:inetdae7:localhost?logging=true </td><td class="col2"> </td>
</tr>
</table>
</div>
Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.

The latest support information are available at: http://www.inetsoftware.de/support

Support is available per email (replace at with @):

<table>
<thead>
<tr>
<th>Licensing, Pricing, Updates, ...</th>
<th>sales at inetsoftware.de</th>
</tr>
</thead>
<tbody>
<tr>
<td>i-net UNA</td>
<td>una at inetsoftware.de</td>
</tr>
<tr>
<td>i-net SPRINTA</td>
<td>sprinta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net OPTA</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net MERLIA</td>
<td>merlia at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE3</td>
<td>merlia at inetsoftware.de</td>
</tr>
</tbody>
</table>
You can find more documentation at:
http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm

<h2>15. Known problems</h2>

- SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int
  - possible workarounds are:
    - set integer values instead of Strings
    - use JDBC URL "jdbc:inetdae7a" - take care about no unicode support
    - set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types

- When using named pipes, setting timeout has no effect.
- When using named pipes, cancel() has no effect.
- The method getTableName() requires a cursor or the "for browse" statement.
- Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output"; and the output value is "abc       "; you receive the value "abc").
- The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.
- The following methods are not supported by this release:
  - PrepareStatement.setArray (int i, Array x)
  - PrepareStatement.setRef (int i, Ref x)
16. Using SSL connections

If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

- a server-wide certificate on the computer with the MS SQL Server 2000.
Note: You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

**WARNING**: After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you'll need to add it to every ODBC client.

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

**16.1. Create a Certificate Request**

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Run the Internet Services Manager that is located in the Administrative Tools folder.

Right-click on the Default Web Site node for the server and select &quot;Properties&quot; from the context menu.

Click on the &quot;Directory Security&quot; tab. A wizard should appear.

Click on the &quot;Server Certificate&quot; button. A wizard should appear.

Click the &quot;Next&quot; button.

The &quot;Create a new certificate&quot; radio button should be selected. Click the &quot;Next&quot; button.
The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.

Click the "Next" button.

Enter your organization name and unit and click the "Next" button.

In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.

Enter your State and City. Click the "Next" button.

Accept the default file name of c:\certreq.txt and click the "Next" button.

Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.

Run Internet Explorer and enter the URL http://YourCertificateServer/certsrv.

Select "Request a Certificate" and click "Next".

Select "Advanced Request" and click "Next".
Select the PKCS#10 option and click "Next".
Paste the text that you copied in notepad earlier into the "Saved Request" field, then click the "Next" button.
It will tell you the request is pending. Click on the home hyperlink at the top.
Run the Certificate Authority application that is located under Administrative Tools.
Click on Pending Requests. You will see the request that you just made in there.
Right-click on the request and select All Tasks/Issue.
Now, go back to the computer that runs the SQL Server/IIS where you made the request from. Select the "Check on pending certifcate" option and click the "Next" button.
You should see the "Saved-Request Certificate" in there now. Click the "Next" button.
Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
Right-click on c:\certnew.cer in Explorer and select Install from the context menu.
Click next all the way through the wizard selecting the defaults. The certificate is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the "computer account".
16.4. Uninstalling a Certificate

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

Start the MMC.EXE and add the Certificates snap-in for the "computer account".
Select the Certificate in the "Personal" or "Own Certificate" Folder.
Drop the Certificate.

16.5. Forcing Protocol Encryption

After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

16.6 The Driver Option secureLevel

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server...</td>
</tr>
</tbody>
</table>
does not support SSL. </td>
</tr>
<tr class="row4">
<td class="col0">3</td>
<td class="col1">Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority.</td>
</tr>
</table></div>
</div>

<h2 id="changes">17. Changes</h2>


<ul>
<li>For XA support the extended procedures was replaced with a NT-Service.</li>
<li>The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.</li>
</ul>

<h3 id="changes-in-version-501-merlia-201-5-feb-2003">17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)</h3>

<ul>
<li>The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.</li>
<li>ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).</li>
<li>A bug with wasNull() and getXXX( x, Calendar) was fixed.</li>
<li>A bug with isFirst() in CachedRowSet was fixed.</li>
<li>A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.</li>
<li>A bug with DTCDatasource, SQL Server 7 and WebLogic was fixed.</li>
</ul>
A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

A bug with CachedRowSet and setXXX was fixed. It works without clearParameters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type "money".

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Connections with a read timeout are removed from the connection pool.
17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)

<ul>
  <li>The return value of supportsStatementPooling() was changed.</li>
  <li>A bug with a DataSource not from the JNDI and equals() was fixed.</li>
  <li>The method getParameterMetaData() was implemented.</li>
  <li>The methods setImpltran() and getImpltran() were added.</li>
  <li>Timestamp objects can be created (read) faster with JDK 1.4.x now.</li>
  <li>A NullPointerException after deserialize of a CachedRowSet was fixed.</li>
  <li>The method PreparedStatement.getMetaData() work also with GROUP BY now.</li>
  <li>Datetime formats with short month and days like ’1999-5-5’ are supported now.</li>
  <li>A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.</li>
  <li>The AsciiStream always sends Ascii data (also in unicode mode).</li>
  <li>The error ’Unknown parameter datatype:-12347’ with setUnicodeStream and server site PreparedStatement was fixed.</li>
  <li>The call setObject( x, value, Types.BIT ) accepts numeric Strings now.</li>
  <li>The detecting of the default codepage of the SQL Server 2000 was changed.</li>
  <li>The error ’Connection refused’ with TdsDataSource and PoolManager was reduced with a synchronized.</li>
  <li>The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.</li>
  <li>The error ’Unknown output datatype:2004’ with updateBlob(String,Blob) was fixed.</li>
</ul>
The error "Unknown output datatype:2005" with updateClob(String, Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter( x, Types.BOOLEAN) was added.

The synchronized from Connection.close() was removed.

The truncate of SP output parameter without input value on length 255 was fixed.

Support for SSL was added.

A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.

A NullPointerException with DataSources was fixed. The bug exists since 6.00.

The methods setSecureLevel() and getSecureLevel() were added.
The regression that connect to MS SQL Server 6.5 fails was fixed.

The regression that connect to MS SQL Server with named pipes and without SSL fails was fixed.

A ClassCastException with CachedRowSet.setTimestamp(x, Timestamp, Calendar) and CachedRowSet.setTime(x, Time, Calendar) was fixed.

The ClassNotFoundExption with SSL on the console with JDK 1.3 was removed.

The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.

Fixes in isAfterLast and isBeforeFirst for empty Resultsets

A bug with ResultSet.updateString(x, null) was fixed. The bug exists since 5.03.01.

A "connection reset by peer" error with the latest security patch of MS was fixed. The bug exists since 5.03.01.

Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server ran to 100% CPU with JDK 1.5.

A bug with getConnection() was fixed. Formerly, a NullPointerException with named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers UNA and SPRINTA always use the secureLevel=0.

The wrong message "Statement.cancel:Statement is currently not running" on running Statements was removed.

The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed.

The issue that the driver could hang on getConnection() with login timeout if you connect to a TCP/IP port of another application was fixed. For example port 21 (File Transfer Protocol), 80 (HTTP) or 1521 (Oracle).

The garbage output of DatabaseMetaData.getColumns() was fixed. The bug
Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.

The methods setAppname() and getAppname() were added to the DataSources.

The methods setFulltran() and getFulltran() were added to the DataSources.

Support for the new protocol of SQLServer 2005 was added.

Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.

The property lastUpdateCount was added.

The sql state &quot;100029&quot; was changed to &quot;07001&quot;. It depends on the SQLException, whether the number of set parameters is correct or not for PreparedStatements/CallableStatements.

A bug with Statement.cancel() and SSL and forceEncryption was fixed.

A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.

The methods of DatabaseMetadata with the catalog parameter now returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.

Some changes on the time behavior after a call of cancel() or if a query timeout occurs.

The timing for resolving the instance name was changed.

The property WSID was added.

The restoring of the connection after an query timeout is faster now if the MS
SQL Server does not need to roll back.<div>
<li class="level1"><div class="li">Support for the data type BIGINT in the method updateObject(i,x) was added.</div></li>
<li class="level1"><div class="li">The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.</div></li>
<li class="level1"><div class="li">If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.</div></li>
<li class="level1"><div class="li">An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.</div></li>
<li class="level1"><div class="li">An SQLWarning was added to the to XAConnection from XDataSource if a connection was not closed from the user's side.</div></li>
</ul>
<ul>
<li class="level1"><div class="li">Connection failover was expanded to set more than one failoverhost.</div></li>
<li class="level1"><div class="li">Added setLogging(String) and setProperty(String) to class TdsDataSource.</div></li>
<li class="level1"><div class="li">The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.</div></li>
</ul>
<ul>
<li class="level1"><div class="li">Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.</div></li>
<li class="level1"><div class="li">The bug in DataSource overwriting the original host/port information in failover case has been fixed.</div></li>
<li class="level1"><div class="li">The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.</div></li>
</ul>
A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.

CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).

Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.

Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message &quot;Invalid object name&quot; had been issued by mistake.

The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.

Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

Method PoolManager.dispose() was added.

The exception &quot;Unknown TDS packet type: 18&quot; will not be thrown anymore.

Performance increasing: executing a prepared statement runs faster at the first execute call.

&quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.

The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int).

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).

Reading out type money and type smallmoney from sql_variant column was fixed.

- New driver property "dstsave"
- Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)
- Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.
- Reading values from MONEY columns with getDouble() has been fixed to return correct values.
- Since version 6.05 CachedRowSet.populate(ResultSet) didn't work. This is fixed now.
- There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.
- An excrescent stacktrace log output was removed. (SocketException)
- TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.
- Since version 6.05: If a statement was already prepared, executing it as batch failed.
- SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().
- Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.
- PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and InputStream values in addition.
- since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.
- since 6.04.12, prepare end execute statements didn't work with SQL Server 7.
Multiple protocol changes to adapt driver to final SQL Server 2005. Fix the bug with transaction

Adapted meta data requests to changes made in final SQL Server 2005.

In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.

When the PreparedStatement contained a character sequence in SQL like &#039;---&#039;, the parameters following were ignored.

Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC URL)

The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.

If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.

Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.

Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.

The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.

Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn&#039;t regard the max data types of SQL Server 2005. An &quot;unknown type&quot; Exception was thrown before.


Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error &quot;column type XX is unknown&quot;.
An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeXXX() was fixed. The exception could occur with an additional PreparedStatement pool.

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.

A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.

If a SP call was prepared then the first call did not return a output parameter. A SP call will be prepared if it has a static parameter or it uses a parameter name.

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.

A ClassCastException was fixed in method PoolManager.closeAll().

Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.

In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.

A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.

The method PoolManager.getConnection() is follow more the FIFO concept.

The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.
The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 Megabyte are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was added.

A bug with the PoolManager inactive timeout was fixed.

The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.

The bulk transfer limit was reduced from 200 Megabyte to 100 Megabyte.

A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.

The default value of dstSave was changed to true.

Date and Timestamp objects are now checked for a valid range. If the is value outside of a valid SQL Server DATETIME then an exception is thrown.
Transaction isolation snapshot was added.

The JDBC 4 feature of negative length for streaming values was added.

A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.

ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.

Some failover properties were added.

A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.

PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.

The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.

A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.

A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.

The cursor scrolling type TYPE_FORWARD_ONLY-1 as an alias for a FAST FORWARD cursor was added. Now FORWARD ONLY is again the default ResultSet type.

A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.

Some protocol violations with the data type XML were fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2
Could not find server 'xyz2005' in sysservers. Execute sp_addlinkedserver to add the server to sysservers.

A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.

Integrated Windows Authentication for TCP/IP connections was added.

An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.

The methods getFunctions and getFunctionColumns are now implemented.

The typed SQLExceptions of the JDBC 4 driver did not have the vendor code.

The vendor code was always 0.

Property statusRequest added.

The following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran, imrltran, JAVA_OBJECT, language, lastUpdateCount, mars, prepare, prepareLiveTime, secureLevel, statusRequest, useInsteadOfTrigger, WSID].

The error "The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly." with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.

The follow SQL "SELECT {ts '2007-10-19 10:20:30.000'" returns a DATETIME and not a VARCHAR for SQL Server 7 or higher."
A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator.".

Instances of PDataSource could not have been serialized.

&lt;em&gt;hostProcess&lt;/em&gt; is supported as client property now. It returns the id identifying the connection on the host. This property can also be seen in the system table &lt;em&gt;sysprocesses&lt;/em&gt;. It is also used for JDBC logging.

With SPRINTA the methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/[xyz2005]Could not find server &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.".

A NullPointerException with deserialize of the CachedRowSet was fixed.

Fix a bug with Windows NT authentication and SQL Server 2005.

Connection property resultSetType added.

A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.

The error "Fatal error on prepare. Connection will be closed." which occurred with a very fast cancel() was fixed.

The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.

The error message "Could not find prepared statement with handle 0." was fixed.

The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.
<li class="level1">
The method DataSource.setUrl was added.</li>

<li class="level1">
The call ResultSet.findColumn( "" ) did not find empty columns.</li>

<li class="level1">
A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error &quot;Error converting data type decimal to decimal.&quot;</li>

<li class="level1">
Some error handling was added for connecting to prevent problems in stress conditions.</li>

<li class="level1">
The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.</li>

<li class="level1">
A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.</li>

<li class="level1">
There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.</li>


<ul class="level3">
<li class="level1">
Connection property resultSetType was not used for PreparedStatement and CallableStatement.</li>

<li class="level1">
There could be a very rare exception &quot;You are are trying to connect to SQL Server 6.5 with the sql7 mode.&quot; with SQL Server 2005 when calling getConnection().</li>

<li class="level1">
Classes DTCDatasource4 and PDatasource4 were added for 100% JDBC 4.0 compliance.</li>
</ul>


<ul class="level3">
<li class="level1">
Empty strings in CacheRowSet changed to null values after serialization.</li>

<li class="level1">
A very rare &quot;ArrayIndexOutOfBoundsException: Array index out of range: 0&quot; on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary..."
The inactive timeout of the PoolManager is now reset with every method call.

The property fastbatch was added.

A possible hanging in socket.skip() after a timeout or cancel was fixed.

An endless loop in ResultSet.findColumn(String) with empty column name was fixed.

Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.

The error &quot;Unknown parameter datatype:-16 - null&quot; with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.

Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.

Fixed some bugs in ParameterMetaData.

Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.

A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.

Fixed some bugs in setClientInfo(String,String) and optimized performance.

Removed the finalize() method from the Connection object.

Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.

Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.

Fixed the very rare exception &quot;java.io.FileNotFoundException:

- Statement.close() could produce a NPE on a running executeQuery() of the same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were not restored for the connection. The values affected all following calls of executeQuery() for this connection.

- A very rare deadlock could occur if a prepared query needed 60 seconds and a second thread was running the same prepared query in this time.

- An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update count.

- With SQL Server 2005 or higher, the first call of method rollback() did not work correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented problems.

- A memory leak in the DTCProxy was fixed.

- Long-running XA transactions were rolled back after 10 minutes under very rare conditions.


- Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.

- Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.

- Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.

- Added property packetSize and changed the default from server default to 8000.
- Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.
- Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.
- The method getClob() returned wrong data for data type VARCHAR(MAX).
- Changed the default value of impltran for PDataSource to false.


- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in <abbr title="American Standard Code for Information Interchange">ASCII</abbr> mode (sub protocol inetdae6 and inetdae7a).
- A regression with ParameterMetaData note setting parameters was fixed.
- An ArrayIndexOutOfBoundsException on ResulSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.
- A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

17.27. Changes in Version 8.03  (17. Apr 2013)

- A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.

<div class="level3">
<ul>
<li class="level1"><div class="li">Does not use the package sun.misc.* on Java 6 and newer.</div></li>
</ul>
</div>


<div class="level3">
<ul>
<li class="level1"><div class="li">A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached</div></li>
<li class="level1"><div class="li">Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</div></li>
<li class="level1"><div class="li">Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.</div></li>
</ul>
</div>


<div class="level3">
<ul>
<li class="level1"><div class="li">Added support for VNN (virtual network names) together with instance names.</div></li>
<li class="level1"><div class="li">Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.</div></li>
<li class="level1"><div class="li">No longer write the password to the driver log.</div></li>
<li class="level1"><div class="li">Add the interface NtlmHandshake to support an external NTLM login source.</div></li>
</ul>
</div>
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lib/junit-3.8.1.jar

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src/plugin/urlfilter-automaton/lib/automaton.jar

dk.brics.automaton

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For more information, go to the package home page at
http://www.brics.dk/~amoeller/automaton/
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src/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/parse-pdf/lib/PDFBox-0.7.4-dev.jar

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src/plugin/parse-pdf/lib/JempBox-0.2.0.jar

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crc/plugin/parse-pdf/lib/FontBox-0.2.0-dev.jar

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*/

src/plugin/lib-xml/lib/jaxen-jdom.jar
src/plugin/lib-xml/lib/jaxen-core.jar

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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*/

src/plugin/lib-xml/lib/saxpath.jar

/*--
$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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*/

src/plugin/lib-xml/lib/xercesImpl.jar

ASF

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5.478 Oswego.util.concurrent 1.3.4

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* Project: https://github.com/FasterXML/woodstox
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ws-addr.wsd (1.0)

* License: W3C
* Project: https://www.w3.org/2005/08/addressing/
* Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd

wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)

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* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source:
  http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsrm Version: 2005/02 (n/a)

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* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/
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wsrm.xsd (1.2)

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xmlsec (1.5.8)

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5.496 Postgres v8.0.3 8.0.3

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5.497 postgresql 42.2.5

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5.498 postgresql-jdbc 42.2.4

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title: PostgreSQL JDBC License
resource: ../media
nav: ../

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<li>[jurka] - Kris Jurka (jurka.at.ejurka.com)</li>
<li>[oliver] - Oliver Jowett (oliver.at.opencloud.com)</li>
</ul>

<a name="authors"></a>
<h2 class="underlined_10">Previous Maintainers</h2>
<div>
<p>The original JDBC driver was written by Adrian Hall. Peter Mount and Barry Lind have maintained it in the past, but have since moved on to other things.
</p>
</div>
<hr />

<a name="developers"></a>
<h2 class="underlined_10">Developers</h2>
<div>
<p>People who have contributed significant code to the project since the 7.4 release. A careful historical study has not been commissioned, but if you’ve done something valuable, we’d be happy to recognize you for it. Just let us know.
</p>
<ul>
<li>Jan Andre le Roux</li>
<li>ResultSetMetaData information based on the V3 protocol</li>
<li>Jaroslaw J. Pyszny</li>
<li>Improve MetaData regarding the serial datatype</li>
<li>Ulrich Meis</li>
<li>Allow users to customize the SSL connection</li>
</ul>
Xavier Poinsard

Standard escaped functions {fn ...() }

Oliver Siegmar

Support for infinity in the timestamp datatype

Make PGInterval able to decode and manipulate interval data

Michael Barker

Blob write and position methods.

Andras Kadinger

Support asynchronous notification retrieval.

Heikki Linnakangas

XADataSource implementation.

Luis Vilar Flores

Reduce memory usage retrieving bytea data.

Michael Paesold

Correctly parse dollar quotes and comments.

Work with standard_conforming_strings = on.

Mikko Tiihonen

Improve speed of parsing ResultSet data.

Marek Lewczuk

Support multi-dimensional arrays and NULL array elements.
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  <ul>
    <li>Petr Dittrich</li>
  </ul>
</li>
<li>de - German
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    <li>Andre Bialojahn</li>
  </ul>
</li>
<li>es - Spanish
  <ul>
    <li>Diego A. Gil</li>
  </ul>
</li>
<li>fr - French
  <ul>
    <li>Xavier Poinsard</li>
  </ul>
</li>
<li>it - Italian
  <ul>
    <li>Giuseppe Sacco</li>
  </ul>
</li>
<li>pl - Polish
  <ul>
    <li>Jaroslaw Pyszny</li>
  </ul>
</li>
<li>pt_BR - Brazilian Portuguese
  <ul>
    <li>Euler Taveira de Oliveira</li>
  </ul>
</li>
<li>ru - Russian
  <ul>
    <li>Serguei Mokhov</li>
  </ul>
</li>
</ul>
</div>
5.499 proto-google-common-protos 1.15.0

5.500 protobuf-java 3.6.1

5.501 proxytoys 1.0

5.502 quality-check 1.3
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5.503 quartz 1.5.1
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testng (6.14.2)

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5.519 SAC 1.3

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     */
    /*
    */
    /* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $ */
    package org.apache.xalan;

    /**
     * Administrative class to keep track of the version number of
     * the Xalan release.
     * <p>This class implements the upcoming standard of having
     * org.apache.project-name.Version.getVersion() be a standard way
     * to get version information. This class will replace the older
     * org.apache.xalan.processor.Version class.</p>
     * <p>See also: org/apache/xalan/res/XSLTInfo.properties for
     * information about the version of the XSLT spec we support.</p>
     * @xsl.usage general
     */
    public class Version
    {
*/
* Get the basic version string for the current Xalan release.
* Version String formatted like
* &lt;CODE&gt;&lt;B&gt;Xalan&lt;/B&gt; &lt;B&gt;Java&lt;/B&gt; v.r[.dd] &lt;B&gt;D&lt;/B&gt;nn]&lt;/CODE&gt;.
* 
* Futurework: have this read version info from jar manifest.
* 
* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct() + " +getImplementationLanguage() +" +
           +getMajorVersionNum() +"." +getReleaseVersionNum() +"." +
           + ((getDevelopmentVersionNum() > 0) ?
               ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/ *
* Print the processor version to the command line.
* 
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
* Name of product: Xalan.
*/
public static String getProduct()
{
    return "Xalan";
}

/**
* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
    return "Java";
}

/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

5.522 serializer 2.7.1

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5.524 sitemapgen4j 1.0.1

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5.526 slf4j-api 1.8.0-beta2

5.527 slf4j-jdk14 1.7.25

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public final class Log4jLoggerAdapter extends MarkerIgnoringBase implements LocationAwareLogger {

package org.slf4j.impl;

import org.apache.log4j.Level;
import org.slf4j.Logger;
import org.slf4j.Marker;
import org.slf4j.helpers.MarkerIgnoringBase;
import org.slf4j.helpers.MessageFormatter;
import org.slf4j.spi.LocationAwareLogger;

/**
 * A wrapper over {@link org.apache.log4j.Logger org.apache.log4j.Logger} in conformance with the {@link Logger} interface. Note that the logging levels mentioned in this class refer to those defined in the
 * <a href="http://logging.apache.org/log4j/docs/api/org/apache/log4j/Level.html">org.apache.log4j.Level</a>
</code>

* class.

* @author Ceki Göl
d\uml;

* /
public final class Log4jLoggerAdapter extends MarkerIgnoringBase implements LocationAwareLogger {
final org.apache.log4j.Logger logger;

/**
 * Following the pattern discussed in pages 162 through 168 of
 * "The complete log4j manual".
 */
final static String FQCN = Log4jLoggerAdapter.class.getName();

// WARN: Log4jLoggerAdapter constructor should have only package access so that
// only Log4jLoggerFactory be able to create one.
Log4jLoggerAdapter(org.apache.log4j.Logger logger) {
  this.logger = logger;
}

public String getName() {
  return logger.getName();
}

/**
 * Is this logger instance enabled for the TRACE level?
 * @return True if this Logger is enabled for level TRACE, false
 * otherwise.
 */
public boolean isTraceEnabled() {
  return logger.isTraceEnabled();
}

/**
 * Log a message object at level TRACE.
 * @param msg - the message object to be logged
 */
public void trace(String msg) {
  logger.log(FQCN, Level.TRACE, msg, null);
}

/**
 * Log a message at level TRACE according to the specified format and
 * argument.
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for level TRACE. </p>
 * @param format the format string
 * @param arg  the argument
 */
public void trace(String format, Object arg) {

if (logger.isTraceEnabled()) {
    String msgStr = MessageFormatter.format(format, arg);
    logger.log(FQCN, Level.TRACE, msgStr, null);
}

/**
 * Log a message at level TRACE according to the specified format and
 * arguments.
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the TRACE level. </p>
 * @param format the format string
 * @param arg1 the first argument
 * @param arg2 the second argument
 */
public void trace(String format, Object arg1, Object arg2) {
    if (logger.isTraceEnabled()) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.TRACE, msgStr, null);
    }
}

/**
 * Log a message at level TRACE according to the specified format and
 * arguments.
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the TRACE level. </p>
 * @param format the format string
 * @param argArray an array of arguments
 */
public void trace(String format, Object[] argArray) {
    if (logger.isTraceEnabled()) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.TRACE, msgStr, null);
    }
}

/**
 * Log an exception (throwable) at level TRACE with an
 * accompanying message.
 * @param msg the message accompanying the exception
 * @param t the exception (throwable) to log
 */
public void trace(String msg, Throwable t) {
    logger.log(FQCN, Level.TRACE, msg, t);
}

/**
 * Is this logger instance enabled for the DEBUG level?
 *
 * @return True if this Logger is enabled for level DEBUG, false
 * otherwise.
 */
public boolean isDebugEnabled() {
    return logger.isDebugEnabled();
}

/**
 * Log a message object at level DEBUG.
 *
 * @param msg - the message object to be logged
 */
public void debug(String msg) {
    logger.log(FQCN, Level.DEBUG, msg, null);
}

/**
 * Log a message at level DEBUG according to the specified format and
 * argument.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for level DEBUG. </p>
 *
 * @param format the format string
 * @param arg  the argument
 */
public void debug(String format, Object arg) {
    if (logger.isDebugEnabled()) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.DEBUG, msgStr, null);
    }
}

/**
 * Log a message at level DEBUG according to the specified format and
 * arguments.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the DEBUG level. </p>
 *
 * @param format the format string
 * @param arg  the argument
 */
public void debug(String format, Object arg) {
    if (logger.isDebugEnabled()) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.DEBUG, msgStr, null);
    }
}
* @param format the format string
* @param arg1 the first argument
* @param arg2 the second argument
*/
public void debug(String format, Object arg1, Object arg2) {
    if (logger.isDebugEnabled()) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.DEBUG, msgStr, null);
    }
}

/**
 * Log a message at level DEBUG according to the specified format and
 * arguments.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the DEBUG level. </p>
 *
 * @param format the format string
 * @param argArray an array of arguments
 */
public void debug(String format, Object[] argArray) {
    if (logger.isDebugEnabled()) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.DEBUG, msgStr, null);
    }
}

/**
 * Log an exception (throwable) at level DEBUG with an
 * accompanying message.
 *
 * @param msg the message accompanying the exception
 * @param t the exception ( throwable) to log
 */
public void debug(String msg, Throwable t) {
    logger.log(FQCN, Level.DEBUG, msg, t);
}

/**
 * Is this logger instance enabled for the INFO level?
 *
 * @return True if this Logger is enabled for the INFO level, false
 * otherwise.
 */
public boolean isInfoEnabled() {
    return logger.isInfoEnabled();
}
/**
 * Log a message object at the INFO level.
 *
 * @param msg - the message object to be logged
 */
public void info(String msg) {
    logger.log(FQCN, Level.INFO, msg, null);
}

/**
 * Log a message at level INFO according to the specified format and
 * argument.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the INFO level. </p>
 *
 * @param format the format string
 * @param arg  the argument
 */
public void info(String format, Object arg) {
    if (logger.isInfoEnabled()) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.INFO, msgStr, null);
    }
}

/**
 * Log a message at the INFO level according to the specified format
 * and arguments.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the INFO level. </p>
 *
 * @param format the format string
 * @param arg1  the first argument
 * @param arg2  the second argument
 */
public void info(String format, Object arg1, Object arg2) {
    if (logger.isInfoEnabled()) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.INFO, msgStr, null);
    }
}

/**
 * Log a message at level INFO according to the specified format and
 * arguments.

This form avoids superfluous object creation when the logger is disabled for the INFO level. <p>

@param format the format string
@param argArray an array of arguments

public void info(String format, Object[] argArray) {
    if (logger.isInfoEnabled()) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.INFO, msgStr, null);
    }
}

/**
* Log an exception (throwable) at the INFO level with an accompanying message.
*
* @param msg the message accompanying the exception
* @param t the exception (throwable) to log
*
* public void info(String msg, Throwable t) {
*    logger.log(FQCN, Level.INFO, msg, t);
*}

/**
* Is this logger instance enabled for the WARN level?
*
* @return True if this Logger is enabled for the WARN level, false otherwise.
*
* public boolean isWarnEnabled() {
*    return logger.isEnabledFor(Level.WARN);
*}

/**
* Log a message object at the WARN level.
*
* @param msg - the message object to be logged
*
* public void warn(String msg) {
*    logger.log(FQCN, Level.WARN, msg, null);
*}

/**
* Log a message at the WARN level according to the specified format and argument.
*
This form avoids superfluous object creation when the logger is disabled for the WARN level. 

@param format the format string
@param arg the argument

public void warn(String format, Object arg) {
    if (logger.isEnabledFor(Level.WARN)) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.WARN, msgStr, null);
    }
}

Log a message at the WARN level according to the specified format and arguments.

@param format the format string
@param arg1 the first argument
@param arg2 the second argument

public void warn(String format, Object arg1, Object arg2) {
    if (logger.isEnabledFor(Level.WARN)) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.WARN, msgStr, null);
    }
}

Log a message at level WARN according to the specified format and arguments.

@param format the format string
@param argArray an array of arguments

public void warn(String format, Object[] argArray) {
    if (logger.isEnabledFor(Level.WARN)) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.WARN, msgStr, null);
    }
}
/**
 * Log an exception (throwable) at the WARN level with an
 * accompanying message.
 *
 * @param msg the message accompanying the exception
 * @param t the exception (throwable) to log
 */
public void warn(String msg, Throwable t) {
    logger.log(FQCN, Level.WARN, msg, t);
}

/**
 * Is this logger instance enabled for level ERROR?
 *
 * @return True if this Logger is enabled for level ERROR, false
 * otherwise.
 */
public boolean isErrorEnabled() {
    return logger.isEnabledFor(Level.ERROR);
}

/**
 * Log a message object at the ERROR level.
 *
 * @param msg - the message object to be logged
 */
public void error(String msg) {
    logger.log(FQCN, Level.ERROR, msg, null);
}

/**
 * Log a message at the ERROR level according to the specified
 * format and argument.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the ERROR level. </p>
 *
 * @param format the format string
 * @param arg the argument
 */
public void error(String format, Object arg) {
    if (logger.isEnabledFor(Level.ERROR)) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.ERROR, msgStr, null);
    }
}
/**
 * Log a message at the ERROR level according to the specified
 * format and arguments.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the ERROR level. </p>
 *
 * @param format the format string
 * @param arg1 the first argument
 * @param arg2 the second argument
 */
public void error(String format, Object arg1, Object arg2) {
    if (logger.isEnabledFor(Level.ERROR)) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.ERROR, msgStr, null);
    }
}

/**
 * Log a message at level ERROR according to the specified format and
 * arguments.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the ERROR level. </p>
 *
 * @param format the format string
 * @param argArray an array of arguments
 */
public void error(String format, Object[] argArray) {
    if (logger.isEnabledFor(Level.ERROR)) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.ERROR, msgStr, null);
    }
}

/**
 * Log an exception (throwable) at the ERROR level with an
 * accompanying message.
 *
 * @param msg the message accompanying the exception
 * @param t the exception (throwable) to log
 */
public void error(String msg, Throwable t) {
    logger.log(FQCN, Level.ERROR, msg, t);
}
public void log(Marker marker, String callerFQCN, int level, String msg, Throwable t) {
    Level log4jLevel;
    switch(level) {
    case LocationAwareLogger.TRACE_INT:
        log4jLevel = Level.TRACE;
        break;
    case LocationAwareLogger.DEBUG_INT:
        log4jLevel = Level.DEBUG;
        break;
    case LocationAwareLogger.INFO_INT:
        log4jLevel = Level.INFO;
        break;
    case LocationAwareLogger.WARN_INT:
        log4jLevel = Level.WARN;
        break;
    case LocationAwareLogger.ERROR_INT:
        log4jLevel = Level.ERROR;
        break;
    default:
        throw new IllegalStateException("Level number "+level+" is not recognized.");
    }
    logger.log(callerFQCN, log4jLevel, msg, t);
}
5.532 snappy-java 1.1.7.2
5.533 solr-solrj 7.2.1

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The primary ANTLR guy:

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- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
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  <settings default="Apache Software Foundation">
    <module2copyright>
      <element module="All" copyright="Apache Software Foundation" />
    </module2copyright>
    <LanguageOptions name="HTML">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="JAVA">
      <option name="fileTypeOverride" value="3" />
    </LanguageOptions>
    <LanguageOptions name="JSP">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="JSPX">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
    <LanguageOptions name="XML">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
  </settings>
</component>
package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;

import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        String name = (String) m.get(NAME);
        if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
        p.role = readValueAsSet(m, "role");
        if (PermissionNameProvider.Name.get(name)!= null) {
            p.wellknownName = PermissionNameProvider.Name.get(name);
            HashSet<String> disAllowed = new HashSet<>(knownKeys);
            disAllowed.remove("role");//these are the only disAllowed.remove(NAME);//allowed keys for well-known permissions disAllowed.remove("collection"); //allowed keys for well-known permissions disAllowed.remove("index"); //allowed keys for well-known permissions
            for (String s : disAllowed) {
                if (m.containsKey(s))
                    throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the permission : " + name);
            }
        }
        p.name = name;
        p.path = readSetSmart(name, m, "path");
        p.collections = readSetSmart(name, m, "collection");
        p.method = readSetSmart(name, m, "method");
        Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
        if (paramRules != null) {
            p.params = new LinkedHashMap<>();
            for (Map.Entry<String, Object> e : paramRules.entrySet()) {
                if (e.getValue() == null) {
                    p.params.put(e.getKey(), (String[] val) -> val == null);
                }
            }
        }
    }
}
List<String> patternStrs = e.getValue().instanceof List ?
    (List) e.getValue() :
    singletonList(e.getValue().toString());
List patterns = patternStrs.stream()
    .map(it -> it.startsWith("REGEX:") ?
        Pattern.compile(String.valueOf(it.substring("REGEX:".length())))
    : it)
    .collect(Collectors.toList());
p.params.put(e.getKey(), val -> {
    if (val == null) return false;
    for (Object pattern : patterns) {
        for (String s : val) {
            if (pattern instanceof String) {
                if (pattern.equals(s)) return true;
            } else if (pattern instanceof Pattern) {
                if (((Pattern) pattern).matcher(s).find()) return true;
            }
        }
    }
    return false;
});
return p;

/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
        "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    } return set == null ? singleton(null) : set;
}/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 */
static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("*");  
        }
        return null;
    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o));
    } else if (val instanceof String) {
        result.add((String) val);
    } else {
        throw new RuntimeException("Bad value for : " + key);
    }
    return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}

@Override
public String toString() {
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", NAME,"index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT", "HEAD");

= Copying Fields
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//
You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before <<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>> is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]

```xml
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
```

Stax2 API is an extension to basic Stax 1.0 API that adds significant new functionality, such as full-featured bi-direction validation interface and high-performance Typed Access API.

(From http://repo1.maven.org/maven2/org/codehaus/woodstox/stax2-api/3.1.4/stax2-api-3.1.4.pom)
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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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boilerpipe

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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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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing").
It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>).

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eigenbase-properties

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo
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5.535 spring-beans 5.0.12

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package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Modifier;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;

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

import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.Nullable;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;

/**
* A basic {@link ConfigurablePropertyAccessor} that provides the necessary
* infrastructure for all typical use cases.
*<p>
* This accessor 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}, or against a comma-delimited String via {code setAsText},
* as String arrays are converted in such a format if the array itself is not
* assignable.
* */
public abstract class AbstractNestablePropertyAccessor extends AbstractPropertyAccessor {

private static final Log logger = LogFactory.getLog(AbstractNestablePropertyAccessor.class);

private int autoGrowCollectionLimit = Integer.MAX_VALUE;

@Nullable
Object wrappedObject;

private String nestedPath = "";

@Nullable
Object rootObject;

/** Map with cached nested Accessors: nested path -> Accessor instance */
@Nullable
private Map<String, AbstractNestablePropertyAccessor> nestedPropertyAccessors;

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

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

/**
 * Create a new accessor for the given object.
 * @param object object wrapped by this accessor
 */
protected AbstractNestablePropertyAccessor(Object object) {
    registerDefaultEditors();
    setWrappedInstance(object);
}

/**
 * Create a new accessor, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
protected AbstractNestablePropertyAccessor(Class<?> clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, Object rootObject) {
    registerDefaultEditors();
    setWrappedInstance(object, nestedPath, rootObject);
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param parent the containing accessor (must not be null)
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, AbstractNestablePropertyAccessor parent) {

setWrappedInstance(object, nestedPath, parent.getWrappedInstance());
setExtractOldValueForEditor(parent.isExtractOldValueForEditor());
setAutoGrowNestedPaths(parent.isAutoGrowNestedPaths());
setAutoGrowCollectionLimit(parent.getAutoGrowCollectionLimit());
setConversionService(parent.getConversionService());
}

/**
 * Specify a limit for array and collection auto-growing.
 * <p>Default is unlimited on a plain accessor.
 */
public void setAutoGrowCollectionLimit(int autoGrowCollectionLimit) {
    this.autoGrowCollectionLimit = autoGrowCollectionLimit;
}

/**
 * Return the limit for array and collection auto-growing.
 */
public int getAutoGrowCollectionLimit() {
    return this.autoGrowCollectionLimit;
}

/**
 * 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, @Nullable String nestedPath, @Nullable Object rootObject) {
    this.wrappedObject = ObjectUtils.unwrapOptional(object);
    Assert.notNull(this.wrappedObject, "Target object must not be null");
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!"".equals(this.nestedPath) ? rootObject : this.wrappedObject);
    this.nestedPropertyAccessors = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, this.wrappedObject);
}
public final Object getWrappedInstance() {
    Assert.state(this.wrappedObject != null, "No wrapped object");
    return this.wrappedObject;
}

public final Class<?> getWrappedClass() {
    return getWrappedInstance().getClass();
}

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

/**
 * Return the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    Assert.state(this.rootObject != null, "No root object");
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Class<?> getRootClass() {
    return getRootInstance().getClass();
}

@Override
public void setPropertyValue(String propertyName, @Nullable Object value) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa;
    try {
        nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    }
    catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                "Nested property in path "+ propertyName + "," + propertyName + ", does not exist", ex);
    }
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

@Override
```java
public void setPropertyValue(PropertyValue pv) throws BeansException {
    PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
    if (tokens == null) {
        String propertyName = pv.getName();
        AbstractNestablePropertyAccessor nestedPa;
        try {
            nestedPa = getPropertyAccessorForPropertyPath(propertyName);
        }
        catch (NotReadablePropertyException ex) {
            throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                    "Nested property in path " + propertyName + " does not exist", ex);
        }
        tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
        if (nestedPa == this) {
            pv.getOriginalPropertyValue().resolvedTokens = tokens;
        } else {
            nestedPa.setPropertyValue(tokens, pv);
        }
    } else {
        setPropertyValue(tokens, pv);
    }
}

protected void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
    if (tokens.keys != null) {
        processKeyedProperty(tokens, pv);
    } else {
        processLocalProperty(tokens, pv);
    }
}

@SuppressWarnings("unchecked")
private void processKeyedProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    Object propValue = getPropertyHoldingValue(tokens);
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.actualName, "No property handler found");
    }
    Assert.state(tokens.keys != null, "No token keys");
    String lastKey = tokens.keys[tokens.keys.length - 1];
    if (propValue.getClass().isArray()) {
        Class<?> requiredType = propValue.getClass().getComponentType();
        int arrayIndex = Integer.parseInt(lastKey);
        Object oldValue = null;
        try {
```
if (isExtractOldValueForEditor() && arrayIndex < Array.getLength(propValue)) {
    oldValue = Array.get(propValue, arrayIndex);
}
Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(), requiredType, ph.nested(tokens.keys.length));
int length = Array.getLength(propValue);
if (arrayIndex >= length && arrayIndex < this.autoGrowCollectionLimit) {
    Class<?> componentType = propValue.getClass().getComponentType();
    Object newArray = Array.newInstance(componentType, arrayIndex + 1);
    System.arraycopy(propValue, 0, newArray, 0, length);
    setPropertyValue(tokens.actualName, newArray);
    propValue = getPropertyValue(tokens.actualName);
}
Array.set(propValue, arrayIndex, convertedValue);
}
catch (IndexOutOfBoundsException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName, "Invalid array index in property path ", tokens.canonicalName + ":", ex);
}
}
else if (propValue instanceof List) {
    Class<?> requiredType = ph.getCollectionType(tokens.keys.length);
    List<Object> list = (List<Object>) propValue;
    int index = Integer.parseInt(lastKey);
    Object oldValue = null;
    if (isExtractOldValueForEditor() && index < list.size()) {
        oldValue = list.get(index);
    }
    Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(), requiredType, ph.nested(tokens.keys.length));
    int size = list.size();
    if (index >= size && index < this.autoGrowCollectionLimit) {
        for (int i = size; i < index; i++) {
            try {
                list.add(null);
            }
            catch (NullPointerException ex) {
                throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName, "Cannot set element with index " + index + ": List does not support filling up gaps with null elements");
            }
        }
        list.add(convertedValue);
    }
}
try {
    catch (NullPointerException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName, "Cannot set element with index " + index + " in List of size "+ size + ": List does not support filling up gaps with null elements");
    }
}
list.add(convertedValue);
}
else {
    try {
list.set(index, convertedValue);
}

try {
    list = new ArrayList<>();
    for (int i = 0; i < propValue.length; i++) {
        list.add(propValue[i]);
    }
}

else if (propValue instanceof Map) {
    Class<?> mapKeyType = ph.getMapKeyType(tokens.keys.length);
    Class<?> mapValueType = ph.getMapValueType(tokens.keys.length);
    Map<Object, Object> map = (Map<Object, Object>) propValue;

    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, lastKey, mapKeyType, typeDescriptor);
    Object oldValue = null;
    if (isExtractOldValueForEditor()) {
        oldValue = map.get(convertedMapKey);
    }
    // Pass full property name and old value in here, since we want full
    // conversion ability for map values.
    Object convertedMapValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
        mapValueType, ph.nested(tokens.keys.length));
    map.put(convertedMapKey, convertedMapValue);
}

else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
        "Property referenced in indexed property path " + tokens.canonicalName + ", " + propValue + "]");
}

private Object getPropertyHoldingValue(PropertyTokenHolder tokens) {
    // Apply indexes and map keys: fetch value for all keys but the last one.
    ArrayUtil.arrayCopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);
    Object propValue;
    try {
        propValue = getPropertyValue(getterTokens);
    }
    catch (NotReadablePropertyException ex) {

throw new NotWritablePropertyException(getRootClass(), this.nestedPath + tokens.canonicalName, "Cannot access indexed value in property referenced " + "in indexed property path " + tokens.canonicalName + ",", ex);
}

if (propValue == null) {
// null map value case
if (isAutoGrowNestedPaths()) {
    int lastKeyIndex = tokens.canonicalName.lastIndexOf('[');
    getterTokens.canonicalName = tokens.canonicalName.substring(0, lastKeyIndex);
    propValue = setDefaultValue(getterTokens);
} else {
    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName, "Cannot access indexed value in property referenced " + "in indexed property path " + tokens.canonicalName + ": returned null");
}
}

return propValue;

private void processLocalProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null || !ph.isWritable()) {
        if (pv.isOptional()) {
            if (logger.isDebugEnabled()) {
                logger.debug("Ignoring optional value for property "+ tokens.actualName + " - property not found on bean class [" + getRootClass().getName() + "]");
            }
            return;
        } else {
            throw createNotWritablePropertyException(tokens.canonicalName);
        }
    }

    Object oldValue = null;
    try {
        Object originalValue = pv.getValue();
        Object valueToApply = originalValue;
        if (!Boolean.FALSE.equals(pv.conversionNecessary)) {
            if (pv.isConverted()) {
                valueToApply = pv.getConvertedValue();
            } else {
                if (isExtractOldValueForEditor() && ph.isReadable()) {
                    try {
                        oldValue = ph.getValue();
                    }
                } else {
                    throw createNotWritablePropertyException(tokens.canonicalName);
                }
            }
        }
    } finally {
        oldValue = null;
    }
}
catch (Exception ex) {
    if (ex instanceof PrivilegedActionException) {
        ex = ((PrivilegedActionException) ex).getException();
    }
    if (logger.isDebugEnabled()) {
        logger.debug("Could not read previous value of property "+
        this.nestedPath + tokens.canonicalName + ", ex");
    }
}
valueToApply = convertForProperty(
tokens.canonicalName, oldValue, originalValue, ph.toTypeDescriptor());
pv.getOriginalPropertyValue().conversionNecessary = (valueToApply != originalValue);
ph.setValue(valueToApply);
catch (TypeMismatchException ex) {
    throw ex;
}
catch (InvocationTargetException ex) {
    PropertyChangeEvent propertyChangeEvent = new PropertyChangeEvent(
        getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
    if (ex.getTargetException() instanceof ClassCastException) {
        throw new TypeMismatchException(propertyChangeEvent, ph.getPropertyType(), ex.getTargetException());
    } else {
        Throwable cause = ex.getTargetException();
        if (cause instanceof UndeclaredThrowableException) {
            // May happen e.g. with Groovy-generated methods
            cause = cause.getCause();
        }
        throw new MethodInvocationException(propertyChangeEvent, cause);
    }
}
catch (Exception ex) {
    PropertyChangeEvent pce = new PropertyChangeEvent(
        getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
    throw new MethodInvocationException(pce, ex);
}

@Override
@Nullable
public Class<?> getPropertyType(String propertyName) throws BeansException {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
    } catch (...
if (ph != null) {
    return ph.getPropertyType();
} else {
    // Maybe an indexed/mapped property...
    Object value = getPropertyValue(propertyName);
    if (value != null) {
        return value.getClass();
    } else {
        // 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;

@Nullable
public TypeDescriptor getPropertyTypeDescriptor(String propertyName) throws BeansException {
    try {
        AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
        String finalPath = getFinalPath(nestedPa, propertyName);
        PropertyTokenHolder tokens = getPropertyNameTokens(finalPath);
        PropertyHandler ph = nestedPa.getLocalPropertyHandler(tokens.actualName);
        if (ph != null) {
            if (tokens.keys != null) {
                if (ph.isReadable() || ph.isWritable()) {
                    return ph.nested(tokens.keys.length);
                } else {
                    return null;
                }
            } else {
                if (ph.isReadable() || ph.isWritable()) {
                    return ph.toTypeDescriptor();
                }
            }
        } else {
            // Consider as not determinable.
            return null;
        }
    } catch (InvalidPropertyException ex) {
        // Consider as not determinable.
    }
    return null;
@Override
public boolean isReadableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.isReadable();
        } else {
            // Maybe an indexed/mapped property...
            getPropertyValue(propertyName);
            return true;
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be readable.
    }
    return false;
}

@Override
public boolean isWritableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.isWritable();
        } else {
            // Maybe an indexed/mapped property...
            getPropertyValue(propertyName);
            return true;
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be writable.
    }
    return false;
}

@Nullable
private Object convertIfNecessary(@Nullable String propertyName, @Nullable Object oldValue, 
        @Nullable Object newValue, @Nullable Class<?> requiredType, @Nullable TypeDescriptor td) 
    throws TypeMismatchException {
    Assert.state(this.typeConverterDelegate != null, "No TypeConverterDelegate");
    try {
        return this.typeConverterDelegate.convertIfNecessary(propertyName, oldValue, newValue, requiredType, td);
    }
try {
  Object value = ph.getValue();
  if (value == null) {
    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName);
  }
  return value;
} catch (PropertyChangeException | IllegalStateException ex) {
  throw new ConversionNotSupportedException(ex, requiredType);
} catch (ConversionException | IllegalArgumentException ex) {
  throw new TypeMismatchException(ex, requiredType);
}
"property path " + propertyName + ": returned null."

StringBuilder indexedPropertyName = new StringBuilder(tokens.actualName);

// 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()) {
        int index = Integer.parseInt(key);
        value = growArrayIfNecessary(value, index, indexedPropertyName.toString());
        value = Array.get(value, index);
    } else if (value instanceof List) {
        int index = Integer.parseInt(key);
        List<Object> list = (List<Object>) value;
        growCollectionIfNecessary(list, index, indexedPropertyName.toString(), ph, i + 1);
        value = list.get(index);
    } else if (value instanceof Set) {
        // Apply index to Iterator in case of a Set.
        Set<Object> set = (Set<Object>) 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<Object> 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<Object, Object> map = (Map<Object, Object>) value;
        Class<?> mapKeyType = ph.getResolvableType().getNested(i + 1).asMap().resolveGeneric(0);
        // IMPORTANT: Do not pass full property name in here - property editors
        // must not kick in for map keys but rather only for map values.
        TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
        Object convertedMapKey = convertIfNecessary(null, null, key, mapKeyType, typeDescriptor);
    }
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 + "]");
}
indexedPropertyName.append(PROPERTY_KEY_PREFIX).append(key).append(PROPERTY_KEY_SUFFIX);
}
return value;
}
catch (IndexOutOfBoundsException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Index of out of bounds in property path "+ propertyName + ",", ex);
}
catch (NumberFormatException | TypeMismatchException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Invalid index in property path "+ propertyName + ",", ex);
}
catch (InvocationTargetException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Getter for property "+ actualName + "," threw exception", ex);
}
catch (Exception ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
"Illegal attempt to get property "+ actualName + "," threw exception", ex);
}
/
* Return the { @link PropertyHandler} for the specified { @code propertyName}, navigating
* If necessary. Return { @code null} 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} if not found
* @throws BeansException in case of introspection failure
* /
@Nullable
protected PropertyHandler getPropertyHandler(String propertyName) throws BeansException {
    Assert.notNull(propertyName, "Property name must not be null");
    AbstractNestablePropertyDescriptor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    return nestedPa.getLocalPropertyHandler(getFinalPath(nestedPa, propertyName));
}
protected abstract PropertyHandler getLocalPropertyHandler(String propertyName);

/**
 * Create a new nested property accessor instance.
 * Can be overridden in subclasses to create a PropertyAccessor subclass.
 * @param object object wrapped by this PropertyAccessor
 * @param nestedPath the nested path of the object
 * @return the nested PropertyAccessor instance
 */
protected abstract AbstractNestablePropertyAccessor newNestedPropertyAccessor(Object object, String
nestedPath);

/**
 * Create a [link NotWritablePropertyException] for the specified property.
 */
protected abstract NotWritablePropertyException createNotWritablePropertyException(String propertyName);

private Object growArrayIfNecessary(Object array, int index, String name) {
if (!isAutoGrowNestedPaths()) {
    return array;
}
int length = Array.getLength(array);
if (index >= length && index < this.autoGrowCollectionLimit) {
    Class<?> componentType = array.getClass().getComponentType();
    Object newArray = Array.newInstance(componentType, index + 1);
    System.arraycopy(array, 0, newArray, 0, length);
    for (int i = length; i < Array.getLength(newArray); i++) {
        Array.set(newArray, i, newValue(componentType, null, name));
    }
    setPropertyValue(name, newArray);
    Object defaultValue = getPropertyValue(name);
    Assert.state(defaultValue != null, "Default value must not be null");
    return defaultValue;
} else {
    return array;
}
}

private void growCollectionIfNecessary(Collection<Object> collection, int index, String name,
PropertyHandler ph, int nestingLevel) {
if (!isAutoGrowNestedPaths()) {
    return;
}
int size = collection.size();
if (index >= size && index < this.autoGrowCollectionLimit) {
    Class<?> elementType = ph.getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
    if (elementType != null) {
        for (int i = collection.size(); i < index + 1; i++) {
            collection.add(newValue(elementType, null, name));
        }
    }
}

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

/**
 * Recursively navigate to return a property accessor for the nested property path.
 * @param propertyPath property path, which may be nested
 * @return a property accessor for the target bean
 */
@SuppressWarnings("unchecked") // avoid nested generic
protected AbstractNestablePropertyAccessor getPropertyAccessorForPropertyPath(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);
        AbstractNestablePropertyAccessor nestedPa = getNestedPropertyAccessor(nestedProperty);
        return nestedPa.getPropertyAccessorForPropertyPath(nestedPath);
    } else {
        return this;
    }
}

/**
Retrieve a Property accessor for the given nested property. Create a new one if not found in the cache.

*Note: Caching nested PropertyAccessors is necessary now, to keep registered custom editors for nested properties.

* @param nestedProperty property to create the PropertyAccessor for
* @return the PropertyAccessor instance, either cached or newly created

```
private AbstractNestablePropertyAccessor getNestedPropertyAccessor(String nestedProperty) {
    if (this.nestedPropertyAccessors == null) {
        this.nestedPropertyAccessors = new HashMap<>();
    }
    // Get value of bean property.
    PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
    String canonicalName = tokens.canonicalName;
    Object value = getPropertyValue(tokens);
    if (value == null || (value instanceof Optional && !((Optional) value).isPresent())) {
        if (isAutoGrowNestedPaths()) {
            value = setDefaultValue(tokens);
        } else {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
        }
    } else {
        if (logger.isTraceEnabled()) {
            logger.trace("Using cached nested property accessor for property "+ canonicalName);
        }
        return nestedPa;
    }
    // Look up cached sub-PropertyAccessor, create new one if not found.
    AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
    if (nestedPa == null || nestedPa.getWrappedInstance() != ObjectUtils.unwrapOptional(value)) {
        if (logger.isTraceEnabled()) {
            logger.trace("Creating new nested " + getClass().getSimpleName() + ", for property " + canonicalName + ", " + NESTED_PROPERTY_SEPARATOR);
        }
        nestedPa = new NestedPropertyAccessor(value, this.nestedPath + canonicalName + NESTED_PROPERTY_SEPARATOR);
    } else {
        if (logger.isTraceEnabled()) {
            logger.trace("Using cached nested property accessor for property " + canonicalName + ", " + NESTED_PROPERTY_SEPARATOR);
        }
        return nestedPa;
    }
    // Inherit all type-specific PropertyEditors.
    copyDefaultEditorsTo(nestedPa);
    copyCustomEditorsTo(nestedPa, canonicalName);
    this.nestedPropertyAccessors.put(canonicalName, nestedPa);
}
```

```
private Object setDefaultValue(PropertyTokenHolder tokens) {
    PropertyValue pv = createDefaultPropertyValue(tokens);
    setPropertyValue(tokens, pv);
}
```
Object defaultValue = getPropertyValue(tokens);
Assert.state(defaultValue != null, "Default value must not be null");
return defaultValue;
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
TypeDescriptor desc = getPropertyTypeDescriptor(tokens.canonicalName);
if (desc == null) {
throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Could not determine property type for auto-growing a default value");
}
Object defaultValue = newValue(desc.getType(), desc, tokens.canonicalName);
return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, @Nullable TypeDescriptor desc, String name) {
try {
if (type.isArray()) {
Class<?> componentType = type.getComponentType();
// TODO - only handles 2-dimensional arrays
if (componentType.isArray()) {
Object array = Array.newInstance(componentType, 1);
Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
return array;
}
else {
return Array.newInstance(componentType, 0);
}
}
else if (Collection.class.isAssignableFrom(type)) {
TypeDescriptor elementDesc = (desc != null ? desc.getElementTypeDescriptor() : null);
return CollectionFactory.createCollection(type, (elementDesc != null ? elementDesc.getType() : null), 16);
}
else if (Map.class.isAssignableFrom(type)) {
TypeDescriptor keyDesc = (desc != null ? desc.getMapKeyTypeDescriptor() : null);
return CollectionFactory.createMap(type, (keyDesc != null ? keyDesc.getType() : null), 16);
}
else {
Constructor<?> ctor = type.getDeclaredConstructor();
if (Modifier.isPrivate(ctor.getModifiers())) {
throw new IllegalAccessException("Auto-growing not allowed with private constructor: " + ctor);
}
return BeanUtils.instantiateClass(ctor);
}
}
catch (Throwable ex) {
throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + name,
"Could not instantiate property type [" + type.getName() + "] to auto-grow nested property path", ex);
}
}
/**
* 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) {
String actualName = null;
List<String> 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.length() > 1 && (key.startsWith("'") && key.endsWith("'")) ||
(key.startsWith("\"") && key.endsWith("\""))) {
key = key.substring(1, key.length() - 1);
}
keys.add(key);
searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
}
}
}
PropertyTokenHolder tokens = new PropertyTokenHolder(actualName != null ? actualName : propertyName);
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;
}
@Override
public String toString() {
StringBuilder sb = new StringBuilder(getClass().getName());
if (this.wrappedObject != null) {
sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.wrappedObject)).append("]");
}

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else {
    sb.append(":
    return sb.toString();
}

protected abstract static class PropertyHandler {

    private final Class<? super T> propertyType;
    private final boolean readable;
    private final boolean writable;

    public PropertyHandler(Class<? super T> propertyType, boolean readable, boolean writable) {
        this.propertyType = propertyType;
        this.readable = readable;
        this.writable = writable;
    }

    public Class<? super T> getPropertyType() {
        return this.propertyType;
    }

    public boolean isReadable() {
        return this.readable;
    }

    public boolean isWritable() {
        return this.writable;
    }

    public abstract TypeDescriptor toTypeDescriptor();

    public abstract ResolvableType getResolvableType();

    @Nullable
    public Class<? super T> getMapKeyType(int nestingLevel) {
        return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(0);
    }

    @Nullable
    public Class<? super T> getMapValueType(int nestingLevel) {
        return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(1);
    }

    @Nullable
public Class<?> getCollectionType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
}

@Nullable
public abstract TypeDescriptor nested(int level);

@Nullable
public abstract Object getValue() throws Exception;

public abstract void setValue(@Nullable Object value) throws Exception;

protected static class PropertyTokenHolder {
    public PropertyTokenHolder(String name) {
        this.actualName = name;
        this.canonicalName = name;
    }

    public String actualName;

    public String canonicalName;

    @Nullable
    public String[] keys;
}

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5.537 spring-context 4.3.16

5.538 spring-core 5.1.6

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 */

package org.springframework.lang;

import java.lang.annotation.Documented;
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.annotation.Nonnull;
import javax.annotation.meta.TypeQualifierNickname;
import javax.annotation.meta.When;

/**
 * A common Spring annotation to declare that annotated elements can be [@code null] under
 * some circumstance.
 *
 * <p>Leverages JSR-305 meta-annotations to indicate nullability in Java to common
tools with JSR-305 support and used by Kotlin to infer nullability of Spring API.

Should be used at parameter, return value, and field level. Methods override should repeat parent \( \text{@code @Nullable} \) annotations unless they behave differently.

Can be used in association with \( \text{@code @NonNullApi} \) or \( \text{@code @NonNullFields} \) to override the default non-nullable semantic to nullable.

@Target({ElementType.METHOD, ElementType.PARAMETER, ElementType.FIELD})
@Retention(RetentionPolicy.RUNTIME)
@Documented
@Nonnull(when = When.MAYBE)
@TypeQualifierNickname
public @interface Nullable {

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5.541 spring-jms 4.3.16

5.542 spring-messaging 5.1.6

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 */

package org.springframework.messaging;

/**
 * A generic message representation with headers and body.
 *
 * @author Mark Fisher
 * @author Arjen Poutsma
 * @since 4.0
 * @param <T> the payload type
 * @see org.springframework.messaging.support.MessageBuilder
 */

public interface Message<T> {

    /**
     * Return the message payload.
     */

}
T getPayload();

/**
 * Return message headers for the message (never {@code null} but may be empty).
 */
MessageHeaders getHeaders();

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5.573 UserAgentUtils 1.21

5.574 validation-api 2.0.1

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5.575 velocity 1.7

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5.577 webservices-api 2.4.2

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5.578 webservice-rt 2.4.2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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5.580 websocket-client 9.4.18.v20190429

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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package org.eclipse.jetty.websocket.client;

import java.io.IOException;
import java.net.CookieStore;
import java.net.SocketAddress;
import java.net.URI;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.Objects;
import java.util.Set;
import java.util.concurrent.Executor;
import java.util.concurrent.Future;
import java.util.function.Supplier;

import org.eclipse.jetty.client.HttpClient;
import org.eclipse.jetty.io.ByteBufferPool;
import org.eclipse.jetty.util.DecoratedObjectFactory;
import org.eclipse.jetty.util.StringUtil;
import org.eclipse.jetty.util.component.ContainerLifeCycle;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.ssl.SslContextFactory;
import org.eclipse.jetty.util.thread.Scheduler;
import org.eclipse.jetty.websocket.api.Session;
import org.eclipse.jetty.websocket.api.WebSocketBehavior;
import org.eclipse.jetty.websocket.api.WebSocketPolicy;
import org.eclipse.jetty.websocket.api.extensions.ExtensionConfig;
import org.eclipse.jetty.websocket.api.extensions.ExtensionFactory;
import org.eclipse.jetty.websocket.client.io.ConnectionManager;
import org.eclipse.jetty.websocket.client.masks.Masker;
import org.eclipse.jetty.websocket.common.SessionFactory;
import org.eclipse.jetty.websocket.common.WebSocketSession;
import org.eclipse.jetty.websocket.common.WebSocketSessionFactory;
import org.eclipse.jetty.websocket.common.WebSocketSessionListener;
import org.eclipse.jetty.websocket.common.events.EventDriverFactory;
import org.eclipse.jetty.websocket.common.extensions.WebSocketExtensionFactory;
import org.eclipse.jetty.websocket.common.scopes.SimpleContainerScope;
import org.eclipse.jetty.websocket.common.scopes.WebSocketContainerScope;

/**
 * WebSocketClient provides a means of establishing connections to remote websocket endpoints.
 */
public class WebSocketClient extends ContainerLifeCycle implements WebSocketContainerScope,
WebSocketSessionListener
{
    private static final Logger LOG = Log.getLogger(WebSocketClient.class);

    // From HttpClient
    private final HttpClient httpClient;

    // CDI layer
    private final Supplier<DecoratedObjectFactory> objectFactorySupplier;

    // WebSocket Specifics
    private final WebSocketPolicy policy;
    private final WebSocketExtensionFactory extensionRegistry;

private final EventDriverFactory eventDriverFactory;
private final SessionFactory sessionFactory;
private final List<WebSocketSessionListener> sessionListeners = new ArrayList<>();

// defaults to true for backwards compatibility
private boolean stopAtShutdown = true;

/**
 * Instantiate a WebSocketClient with defaults
 */
public WebSocketClient()
{
    this((HttpClient)null);
}

/**
 * Instantiate a WebSocketClient using HttpClient for defaults
 *
 * @param httpClient
 *            the HttpClient to base internal defaults off of
 */
public WebSocketClient(HttpClient httpClient)
{
    this(httpClient, null);
}

/**
 * Instantiate a WebSocketClient using HttpClient for defaults
 *
 * @param httpClient
 *            the HttpClient to base internal defaults off of
 * @param objectFactory
 *            the DecoratedObjectFactory for all client instantiated classes
 */
public WebSocketClient(HttpClient httpClient, DecoratedObjectFactory objectFactory)
{
    this(new SimpleContainerScope(new WebSocketPolicy(WebSocketBehavior.CLIENT), null, null, null,
                   objectFactory), null, null, httpClient);
}

/**
 * Create a new WebSocketClient
 *
 * @param sslContextFactory
 *            ssl context factory to use
 * @deprecated use {@link #WebSocketClient(HttpClient)} instead
 */
@Deprecated

public WebSocketClient(SslContextFactory sslContextFactory)
{
    this(sslContextFactory, null, null);
}

/**
 * Create a new WebSocketClient
 *
 * @param executor
 *            the executor to use
 * @deprecated use [@link #WebSocketClient(HttpClient)] instead
 */
public WebSocketClient(Executor executor)
{
    this(null, executor, null);
}

/**
 * Create a new WebSocketClient
 *
 * @param bufferPool
 *            byte buffer pool to use
 * @deprecated use [@link #WebSocketClient(HttpClient)] instead
 */
@Deprecated
public WebSocketClient(ByteBufferPool bufferPool)
{
    this(null, null, bufferPool);
}

/**
 * Create a new WebSocketClient
 *
 * @param sslContextFactory
 *            ssl context factory to use
 * @param executor
 *            the executor to use
 * @deprecated use [@link #WebSocketClient(HttpClient)] instead
 */
@Deprecated
public WebSocketClient(SslContextFactory sslContextFactory, Executor executor)
{
    this(sslContextFactory, executor, null);
}

/**
 * Create WebSocketClient other Container Scope, to allow sharing of
 * internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
 *
public WebSocketClient(WebSocketContainerScope scope)
{
    this(scope, null, null, null);
}

/**
 * Create WebSocketClient other Container Scope, to allow sharing of
 * internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
 *
 * @param scope
 *            the Container Scope
 * @param sslContextFactory
 *            SSL ContextFactory to use in preference to one from
 *            { @link WebSocketContainerScope#getSslContextFactory()}
 */
public WebSocketClient(WebSocketContainerScope scope, SslContextFactory sslContextFactory)
{
    this(sslContextFactory, scope.getExecutor(), scope.getBufferPool(), scope.getObjectFactory());
}

/**
 * Create WebSocketClient using sharing instances of SSLContextFactory
 * Executor, and ByteBufferPool
 *
 * @param sslContextFactory
 *            shared SSL ContextFactory
 * @param executor
 *            shared Executor
 * @param bufferPool
 *            shared ByteBufferPool
 */
public WebSocketClient(SslContextFactory sslContextFactory, Executor executor, ByteBufferPool bufferPool)
{
    this(sslContextFactory, executor, bufferPool, null);
}

/**
 * Create WebSocketClient using sharing instances of SSLContextFactory
 * Executor, and ByteBufferPool
 * 
 * @param sslContextFactory
 *            shared SSL ContextFactory
 * @param executor
 *            shared Executor
 */
*/
private WebSocketClient(SslContextFactory sslContextFactory, Executor executor, ByteBufferPool bufferPool,
DecoratedObjectFactory objectFactory)
{
    this(new SimpleContainerScope(new WebSocketPolicy(WebSocketBehavior.CLIENT), bufferPool, executor,
sslContextFactory, objectFactory));
    addBean(this.httpClient);
}
/**
* Create WebSocketClient based on pre-existing Container Scope, to allow sharing of
* internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
*
* @param scope
*    the Container Scope
* @param eventDriverFactory
*    the EventDriver Factory to use
* @param sessionFactory
*    the SessionFactory to use
*/
public WebSocketClient(final WebSocketContainerScope scope, EventDriverFactory eventDriverFactory,
SessionFactory sessionFactory)
{
    this(scope, eventDriverFactory, sessionFactory, null);
}
/**
* Create WebSocketClient based on pre-existing Container Scope, to allow sharing of
* internal features like Executor, ByteBufferPool, SSLContextFactory, etc.
*
* @param scope
*    the Container Scope
* @param eventDriverFactory
*    the EventDriver Factory to use
* @param sessionFactory
*    the SessionFactory to use
* @param httpClient
*    the httpClient to use
*/
public WebSocketClient(final WebSocketContainerScope scope, EventDriverFactory eventDriverFactory,
SessionFactory sessionFactory, HttpClient httpClient)
{
    if (httpClient == null)
    {

this.httpClient = HttpClientProvider.get(scope);
    addBean(this.httpClient);
}
else
{
    this.httpClient = httpClient;
}

this.addSessionListener(this);

// Ensure we get a Client version of the policy.
this.policy = scope.getPolicy().delegateAs(WebSocketBehavior.CLIENT);
// Support Late Binding of Object Factory (for CDI)
this.objectFactorySupplier = () -> scope.getObjectFactory();
this.extensionRegistry = new WebSocketExtensionFactory(this);

this.eventDriverFactory = eventDriverFactory == null ? new EventDriverFactory(this) : eventDriverFactory;
this.sessionFactory = sessionFactory == null ? new WebSocketSessionFactory(this) : sessionFactory;

public Future<Session> connect(Object websocket, URI toUri) throws IOException
{
    ClientUpgradeRequest request = new ClientUpgradeRequest(toUri);
    request.setRequestURI(toUri);
    request.setLocalEndpoint(websocket);
    return connect(websocket,toUri,request);
}

public Future<Session> connect(Object websocket, URI toUri, ClientUpgradeRequest request) throws IOException
{
    return connect(websocket,toUri,request,(UpgradeListener)null);
}

/**
* Connect to remote websocket endpoint
*
* @param websocket
*    the websocket object
* @param toUri
*    the websocket uri to connect to
* @param request
*    the upgrade request information
* @return the future for the session, available on success of connect
* @throws IOException
*    if unable to connect
*/
public Future<Session> connect(Object websocket, URI toUri, ClientUpgradeRequest request) throws IOException
{
    return connect(websocket,toUri,request,(UpgradeListener)null);
}
/**
* Connect to remote websocket endpoint
*
* @param websocket
*
the websocket object
* @param toUri
*
the websocket uri to connect to
* @param request
*
the upgrade request information
* @param upgradeListener
*
the upgrade listener
* @return the future for the session, available on success of connect
* @throws IOException
*
if unable to connect
*/
public Future<Session> connect(Object websocket, URI toUri, ClientUpgradeRequest request, UpgradeListener
upgradeListener) throws IOException
{
/* Note: UpgradeListener is used by javax.websocket.ClientEndpointConfig.Configurator
* See: org.eclipse.jetty.websocket.jsr356.JsrUpgradeListener
*/
if (!isStarted())
{
throw new IllegalStateException(WebSocketClient.class.getSimpleName() + "@" + this.hashCode() + " is
not started");
}
// Validate websocket URI
if (!toUri.isAbsolute())
{
throw new IllegalArgumentException("WebSocket URI must be absolute");
}
if (StringUtil.isBlank(toUri.getScheme()))
{
throw new IllegalArgumentException("WebSocket URI must include a scheme");
}
String scheme = toUri.getScheme().toLowerCase(Locale.ENGLISH);
if (("ws".equals(scheme) == false) && ("wss".equals(scheme) == false))
{
throw new IllegalArgumentException("WebSocket URI scheme only supports [ws] and [wss], not [" +
scheme + "]");
}
if ("wss".equals(scheme))
{
// test for ssl context

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if (httpClient.getSslContextFactory() == null)
{
    throw new IllegalStateException("HttpClient has no SslContextFactory, wss:// URI's are not supported in this configuration");
}

request.setRequestURI(toUri);
request.setLocalEndpoint(websocket);

// Validate Requested Extensions
for (ExtensionConfig reqExt : request.getExtensions())
{
    if (!extensionRegistry.isAvailable(reqExt.getName()))
    {
        throw new IllegalArgumentException("Requested extension [" + reqExt.getName() + "] is not installed");
    }
}

if (LOG.isDebugEnabled())
    LOG.debug("connect websocket {} to ",websocket,toUri);

init();

WebSocketUpgradeRequest wsReq = new WebSocketUpgradeRequest(this,httpClient,request);

wsReq.setUpgradeListener(upgradeListener);
return wsReq.sendAsync();

@Override
protected void doStart() throws Exception
{
    Objects.requireNonNull(httpClient, "Provided HttpClient is null");
    super.doStart();

    if (!httpClient.isRunning())
        throw new IllegalStateException("HttpClient is not running (did you forget to start it?): " + httpClient);
}

@Override
protected void doStop() throws Exception
{
    if (LOG.isDebugEnabled())
        LOG.debug("Stopping ",this);

    ShutdownThread.deregister(this);
}
super.doStop();

if (LOG.isDebugEnabled())
    LOG.debug("Stopped { }",this);
}

@Deprecated
public boolean isDispatchIO()
{
    return httpClient.isDispatchIO();
}

/**
* Return the number of milliseconds for a timeout of an attempted write operation.
* @return number of milliseconds for timeout of an attempted write operation
*/
public long getAsyncWriteTimeout()
{
    return getPolicy().getAsyncWriteTimeout();
}

public SocketAddress getBindAddress()
{
    return httpClient.getBindAddress();
}

@Override
public ByteBufferPool getBufferPool()
{
    return httpClient.getByteBufferPool();
}

@Deprecated
public ConnectionManager getConnectionManager()
{
    throw new UnsupportedOperationException("ConnectionManager is no longer supported");
}

public long getConnectTimeout()
{
    return httpClient.getConnectTimeout();
}

public CookieStore getCookieStore()
{
    return httpClient.getCookieStore();
public EventDriverFactory getEventDriverFactory()
{
    return eventDriverFactory;
}

@Override
public Executor getExecutor()
{
    return httpClient.getExecutor();
}

public ExtensionFactory getExtensionFactory()
{
    return extensionRegistry;
}

/**
 * @deprecated not used, no replacement
 * @return a { @link RandomMasker} instance
 */
@Deprecated
public Masker getMasker()
{
    return new RandomMasker();
}

/**
 * Get the maximum size for buffering of a binary message.
 * @return the maximum size of a binary message buffer.
 */
public int getMaxBinaryMessageBufferSize()
{
    return getPolicy().getMaxBinaryMessageBufferSize();
}

/**
 * Get the maximum size for a binary message.
 * @return the maximum size of a binary message.
 */
public long getMaxBinaryMessageSize()
{
    return getPolicy().getMaxBinaryMessageSize();
}
/**
 * Get the max idle timeout for new connections.
 * @return the max idle timeout in milliseconds for new connections.
 */
public long getMaxIdleTimeout()
{
    return getPolicy().getIdleTimeout();
}

/**
 * Get the maximum size for buffering of a text message.
 * @return the maximum size of a text message buffer.
 */
public int getMaxTextMessageBufferSize()
{
    return getPolicy().getMaxTextMessageBufferSize();
}

/**
 * Get the maximum size for a text message.
 * @return the maximum size of a text message.
 */
public long getMaxTextMessageSize()
{
    return getPolicy().getMaxTextMessageSize();
}

@Override
public DecoratedObjectFactory getObjectFactory()
{
    return this.objectFactorySupplier.get();
}

public Set<WebSocketSession> getOpenSessions()
{
    return Collections.unmodifiableSet(new HashSet<>(getBeans(WebSocketSession.class)));
}

@Override
public WebSocketPolicy getPolicy()
{
    return this.policy;
}

public Scheduler getScheduler()
{  
  return httpClient.getScheduler();
}

SessionFactory getSessionFactory()
{
  return sessionFactory;
}

/**
 * @return the [link SslContextFactory] that manages TLS encryption
 * @see #WebSocketClient(SslContextFactory)
 */
@Override
public SslContextFactory getSslContextFactory()
{
  return httpClient.getSslContextFactory();
}

@Override
public void addSessionListener(WebSocketSessionListener listener)
{
  this.sessionListeners.add(listener);
}

@Override
public void removeSessionListener(WebSocketSessionListener listener)
{
  this.sessionListeners.remove(listener);
}

@Override
public Collection<WebSocketSessionListener> getSessionListeners()
{
  return this.sessionListeners;
}

private synchronized void init()
{
  if (isStopAtShutdown() && !ShutdownThread.isRegistered(this))
  {
    ShutdownThread.register(this);
  }
}

/**
 * Factory method for new ConnectionManager
 */
* @return the ConnectionManager instance to use
* @deprecated use HttpClient instead
*/

@Deprecated
protected ConnectionManager newConnectionManager()
{
    throw new UnsupportedOperationException("ConnectionManager is no longer supported");
}

@Override
public void onSessionClosed(WebSocketSession session)
{
    if (LOG.isDebugEnabled())
        LOG.debug("Session Closed: {}", session);
    removeBean(session);
}

@Override
public void onSessionOpened(WebSocketSession session)
{
    if (LOG.isDebugEnabled())
        LOG.debug("Session Opened: {}", session);
    addManaged(session);
}

public void setAsyncWriteTimeout(long ms)
{
    getPolicy().setAsyncWriteTimeout(ms);
}

/**
* @param bindAddress the address to bind to
* @deprecated (this is a bad bad bad typo) use {@link HttpClient#setBindAddress(SocketAddress)}
* on instance passed to {@link #WebSocketClient(HttpClient)}
* /

@Deprecated
public void setBindAddress(SocketAddress bindAddress)
{
    setBindAddress(bindAddress);
}

/**
* @param bindAddress the address to bind to
* @deprecated Use {@link HttpClient#setBindAddress(SocketAddress)}
* on instance passed to {@link #WebSocketClient(HttpClient)}
* /

@Deprecated
public void setBindAddress(SocketAddress bindAddress)
{
    this.httpClient.setBindAddress(bindAddress);
}

/**
 * @param bufferPool The buffer pool
 * @deprecated Use \{link HttpClient#setByteBufferPool(ByteBufferPool)\}
 * on the instance passed to \{link WebSocketClient(HttpClient)\}
 */
public void setBufferPool(ByteBufferPool bufferPool)
{
    this.httpClient.setByteBufferPool(bufferPool);
}

/**
 * Set the timeout for connecting to the remote server.
 * @param ms the timeout in milliseconds
 * @deprecated Use \{link HttpClient#setConnectTimeout(long)\}
 * on the instance passed to \{link WebSocketClient(HttpClient)\}
 */
public void setConnectTimeout(long ms)
{
    this.httpClient.setConnectTimeout(ms);
}

/**
 * @param cookieStore The cookie store
 * @deprecated Use \{link HttpClient#setCookieStore(CookieStore)\} on the HttpClient instance passed
 * to \{link WebSocketClient(HttpClient)\}
 */
@Deprecated
public void setCookieStore(CookieStore cookieStore)
{
    this.httpClient.setCookieStore(cookieStore);
}

/**
 * @deprecated not used, configure threading in HttpClient instead
 * @param daemon do nothing
 */
@Deprecated
public void setDaemon(boolean daemon)
{
    // do nothing
}

@Deprecated
public void setDispatchIO(boolean dispatchIO)
{
    this.httpClient.setDispatchIO(dispatchIO);
}

/**
 * @param executor The executor to use
 * @deprecated Use {link HttpClient#setExecutor(Executor)}
 * on the instance passed to {link WebSocketClient(HttpClient)}
 */
@Deprecated
public void setExecutor(Executor executor)
{
    this.httpClient.setExecutor(executor);
}

/**
 * @deprecated not used, no replacement
 * @param masker do nothing
 */
@Deprecated
public void setMasker(Masker masker)
{
    /* do nothing */
}

public void setMaxBinaryMessageBufferSize(int max)
{
    getPolicy().setMaxBinaryMessageBufferSize(max);
}

/**
 * Set the max idle timeout for new connections.
 * <p>
 * Existing connections will not have their max idle timeout adjusted.
 * 
 * @param ms the timeout in milliseconds
 */
public void setMaxIdleTimeout(long ms)
{
    getPolicy().setIdleTimeout(ms);
    this.httpClient.setIdleTimeout(ms);
}

public void setMaxTextMessageBufferSize(int max)
{
    getPolicy().setMaxTextMessageBufferSize(max);
}
public HttpClient getHttpClient()
{
    return this.httpClient;
}

/**
 * Set JVM shutdown behavior.
 * @param stop If true, this client instance will be explicitly stopped when the
 * JVM is shutdown. Otherwise the application is responsible for maintaining the WebSocketClient lifecycle.
 * @see Runtime#addShutdownHook(Thread)
 * @see ShutdownThread
 */
public synchronized void setStopAtShutdown(boolean stop)
{
    if (stop)
    {
        if (!stopAtShutdown && isStarted() && !ShutdownThread.isRegistered(this))
            ShutdownThread.register(this);
    }
    else
        ShutdownThread.deregister(this);

    stopAtShutdown = stop;
}

public boolean isStopAtShutdown()
{
    return stopAtShutdown;
}

@Override
public boolean equals(Object o)
{
    if (this == o) return true;
    if (!(o instanceof WebSocketClient)) return false;
    WebSocketClient that = (WebSocketClient) o;
    return Objects.equals(this.httpClient, that.httpClient) &&
           Objects.equals(this.policy, that.policy);
}

@Override
public int hashCode()
{
    return Objects.hash(httpClient, policy);
}

@Override
public String toString()
{
    final StringBuilder sb = new StringBuilder("WebSocketClient@ ");
    sb.append(Integer.toHexString(hashCode()));
    sb.append("[httpClient=")
    sb.append(httpClient);
    sb.append(",openSessions.size=")
    sb.append(getOpenSessions().size());
    sb.append(']');
    return sb.toString();
}

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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5.611 xom 1.2.10

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6.3 Activation 1.1 1.0.1

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6.7 ActiveMQ Protocol Buffers
Implementation and Compiler 1.1
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6.8 annogen 0.1.0

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:
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databinding
databinding-axiom
databinding-jaxb
databinding-json
databinding-sdo
databinding-sdo-axiom
databinding-xmlbeans
interfaced-wsdl-xml

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XML Model 1.4

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 * specific language governing permissions and limitations
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 */
package org.apache.commons.compress.archivers;
import java.util.Date;

/**< *
 * Represents an entry of an archive.
 */
 public interface ArchiveEntry {

 /**
 * Gets the name of the entry in this archive. May refer to a file or directory or other item.
 *
 * <p>This method returns the raw name as it is stored inside of the archive.</p>
 *
 * @return The name of this entry in the archive.
 */
 String getName();

 /**
 * Gets the uncompressed size of this entry. May be -1 (SIZE_UNKNOWN) if the size is unknown
 *
 * @return the uncompressed size of this entry.
 */
 long getSize();

 /** Special value indicating that the size is unknown */
 long SIZE_UNKNOWN = -1;

 /**
 * Returns true if this entry refers to a directory.
 *
 * @return true if this entry refers to a directory.
 */
 boolean isDirectory();

 /**
 * Gets the last modified date of this entry.
 *
 * @return the last modified date of this entry.
 * @since 1.1
 */
 Date getLastModifiedDate();
}
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6.147 Data Mapper for Jackson 1.9.2

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http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true

== 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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6.148 Direct Web Remoting 2.0.3

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6.149 Discovery 0.2

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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
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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.

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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.)

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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.

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6.155 ezmorph 1.0.6

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6.156 FindBugs-Annotations 1.3.9

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6.157 ganymed-ssh2 build250

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6.174 ha-api 3.1.8

6.175 Hamcrest Core 1.3

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6.176 Handlebars 4.0.11

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6.179 Hibernate/c3p0 Integration 4.3.6.Final
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/*
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6.207 Java Persistence API, Version 2.1

1.0.0.Final

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6.208 Java Transaction API 1.0.0.Final

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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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6.220 JAX-WS API 2.2.8 :Maintenance

Release 1
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1.2.0.Beta1

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*/

package org.jdom;

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 *
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
 * @author Brett McLaughlin
 * @author Jason Hunter
 */

public class Comment extends Content {

    private static final String CVS_ID =
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

    /** Text of the &lt;code&gt;Comment&lt;/code&gt; */
protected String text;

/**
 * Default, no-args constructor for implementations to use if needed.
 */
protected Comment() {}

/**
 * This creates the comment with the supplied text.
 *
 * @param text <code>String</code> content of comment.
 */
public Comment(String text) {
    setText(text);
}

/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 *
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 *
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *         Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }
    return this;
}
6.234 jersey-apache-client4 1.19

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6.263 JSON RPC 1.0

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6.280 Logback Core Module 1.1.2

6.280.1 Available under license:

cat logback-core-1.1.2-sources/ch/qos/logback/core/LayoutBase.java

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6.285 miglayout 3.5.5

6.286 MIME streaming extension 1.6

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(XPP3) 1.1.4c

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6.300 org.apache.tools.ant 1.7.0

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6.301 org.osgi.core 4.1.0

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6.318 Rhino 1.7R2

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6.324 Servlet Specification 2.5 API 6.1.14

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 *common behavior for certain user types. For example, a system might have an <em>Administrator</em> role, a
 *<em>User</em> or <em>Guest</em> roles, etc.
 *<p/>
 *But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
 *role names in your code. In this environment, roles themselves aren't aren't very useful. What matters is what
 *<em>permissions</em> are assigned to these roles.
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 *Under this paradigm, permissions are immutable and reflect an application's raw functionality
 *(opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
 *to be dynamic: because Permissions represent raw functionality and only change when the application's
 *source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
 *groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
 *associating Permissions to roles, users, and groups in some way.
 *<p/>
 *Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
 *Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
association, the user 'has' the permissions in their roles. There are numerous variations on this theme
(permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,
and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security
model.

A benefit to Shiro is that, although it assumes most systems are based on these types of static role or
dynamic role w/ permission schemes, it does not require a system to model their security data this way - all
Permission checks are relegated to (@link org.apache.shiro.realm.Realm Realm) implementations, and only those
implementations really determine how a user 'has' a permission or not. The Realm could use the semantics
described here, or it could utilize some other mechanism entirely - it is always up to the application developer.

Shiro provides a very powerful default implementation of this interface in the form of the
[@link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission]. We highly recommend that you
investigate this class before trying to implement your own <code>Permission</code>s.

Shiro provides a very powerful default implementation of this interface in the form of the
[@link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission]. We highly recommend that you
investigate this class before trying to implement your own <code>Permission</code>s.

public interface Permission {

/**
 * Returns [@code true] if this current instance <em>implies</em> all the functionality and/or resource access
 * described by the specified [@code Permission] argument, [@code false] otherwise.
 * <p>
 * That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality
 * and/or resource access described by the given [@code Permission] argument. Yet another way of saying this
 * would be:
 * <p>
 * If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code>,
 * then any Subject granted [@code permission1] would have ability greater than or equal to that defined by
 * [@code permission2].
 * 
 * @param p the permission to check for behavior/functionality comparison.
 * @return [@code true] if this current instance <em>implies</em> all the functionality and/or resource access
 * described by the specified [@code Permission] argument, [@code false] otherwise.
 */
 boolean implies(Permission p);
}

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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * { @link org.apache.shiro.authz.Permission} instances.
 * <p/>
 * In some cases a { @link org.apache.shiro.realm.Realm} my only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 * 
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     * 
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);
}

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package org.apache.shiro.authz.permission;

import java.io.Serializable;
import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * {@link #implies implies} method always returns <tt>true</tt>
 *<p>
 * You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */

public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
     *<p>
     * @param p the Permission to check for implies logic.
     * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }

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package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;
import org.apache.shiro.util.StringUtils;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;

/**
 * A <code>WildcardPermission</code> is a very flexible permission construct supporting multiple levels of
 * permission matching. However, most people will probably follow some standard conventions as explained below.
 * <p/>
 * <h3>Simple Usage</h3>
 * <p/>
 * In the simplest form, <code>WildcardPermission</code> can be used as a simple permission string. You could
 * grant a
 * user an "editNewsletter" permission and then check to see if the user has the editNewsletter
 * permission by calling
 * <p/>
 * <code>subject.isPermitted("editNewsletter")</code>
 * <p/>
 * This is (mostly) equivalent to
 * <p/>
 * <code>subject.isPermitted( new WildcardPermission("editNewsletter") )</code>
 * <p/>
 * but more on that later.
 * <p/>
 * The simple permission string may work for simple applications, but it requires you to have permissions like
 * <code>viewNewsletter</code>, <code>deleteNewsletter</code>, <code>createNewsletter</code>, etc. You can also grant a user <code>"*"</code> permissions
 * using the wildcard character (giving this class its name), which means they have <em>all</em> permissions. But
 * using this approach there's no way to just say a user has "all newsletter permissions".
 * <p/>
 * For this reason, <code>WildcardPermission</code> supports multiple <em>levels</em> of permissioning.
 * <p/>
 * <h3>Multiple Levels</h3>
 * <p/>
 * WildcardPermission also supports the concept of multiple <em>levels</em>. For example, you could
* restructure the previous simple example by granting a user the permission <code>"newsletter:edit"</code>.
* The colon in this example is a special character used by the <code>WildcardPermission</code> that delimits the
* next token in the permission.
* <p/>
* In this example, the first token is the <em>domain</em> that is being operated on
* and the second token is the <em>action</em> being performed. Each level can contain multiple values. So you
* could simply grant a user the permission <code>"newsletter:view,edit,create"</code> which gives them
* access to perform <code>view</code>, <code>edit</code>, and <code>create</code> actions in the
* <code>newsletter</code> domain. Then you could check to see if the user has the <code>"newsletter:create"</code>
* permission by calling
* <p/>
* <code>subject.isPermitted("newsletter:create")</code>
* <p/>
* (which would return true).
* <p/>
* In addition to granting multiple permissions via a single string, you can grant all permission for a particular
* level. So if you wanted to grant a user all actions in the <code>newsletter</code> domain, you could simply give
* them <code>"newsletter:*"</code>. Now, any permission check for <code>"newsletter:XXX"</code> will return <code>true</code>. It is also possible to use the wildcard token at the domain level (or both): so you
* could grant a user the <code>"view"</code> action across all domains <code>"*:view"</code>.
* <p/>
* <h3>Instance-level Access Control</h3>
* <p/>
* Another common usage of the <code>WildcardPermission</code> is to model instance-level Access Control
* Lists. In this scenario you use three tokens - the first is the <em>domain</em>, the second is the <em>action</em>, and
* the third is the <em>instance</em> you are acting on.
* <p/>
* So for example you could grant a user <code>"newsletter:edit:12,13,18"</code>. In this example, assume
* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters
* in the <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express
* permissions, since you can now say things like <code>"newsletter:*:13"</code> (grant a user all actions for newsletter
* <code>13</code>), <code>"newsletter:view,create,edit:*"</code> (allow the user to
* <code>view</code>, <code>create</code>, or <code>edit</code> <em>any</em> newsletter), or
* <code>"newsletter:*:*"</code> (allow the user to perform <em>any</em> action on <em>any</em> newsletter).
* <p/>
* To perform checks against these instance-level permissions, the application should include the instance ID in the
* permission check like so:
* <p/>
* <code>subject.isPermitted("newsletter:edit:13")</code>
* <p/>
* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that
* this could be used in your application. However, the Shiro team likes tostandardize some common usages shown
* above to help people get started and provide consistency in the Shiro community.

* @since 0.9
public class WildcardPermission implements Permission, Serializable {

    //TODO - JavaDoc methods

    /*--------------------------------------------
    |             C O N S T A N T S             |
    --------------------------------------------*/
    protected static final String WILDCARD_TOKEN = "*";
    protected static final String PART_DIVIDER_TOKEN = ":";
    protected static final String SUBPART_DIVIDER_TOKEN = ",";
    protected static final boolean DEFAULT_CASE_SENSITIVE = false;

    /*--------------------------------------------
    | I N S T A N C E   V A R I A B L E S     |
    --------------------------------------------*/
    private List<Set<String>> parts;

    /*--------------------------------------------
    |         C O N S T R U C T O R S         |
    --------------------------------------------*/

    /**
     * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
     * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
     * <p/>
     * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
     * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
     * { @code UserPermission}, { @code SystemPermission}, { @code PrinterPermission}, etc. If you want such
     * type-safe
     * permission usage, consider subclassing the { @link DomainPermission DomainPermission} class for your
     * needs.
     */
    protected WildcardPermission() {
    }

    public WildcardPermission(String wildcardString) {
        this(wildcardString, DEFAULT_CASE_SENSITIVE);
    }

    public WildcardPermission(String wildcardString, boolean caseSensitive) {
        setParts(wildcardString, caseSensitive);
    }

    protected void setParts(String wildcardString) {
        setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
    }

    protected void setParts(String wildcardString, boolean caseSensitive) {

wildcardString = StringUtils.clean(wildcardString);

if (wildcardString == null || wildcardString.isEmpty()) {
    throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission strings are properly formatted.");
}

if (!caseSensitive) {
    wildcardString = wildcardString.toLowerCase();
}

List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

this-parts = new ArrayList<Set<String>>();
for (String part : parts) {
    Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));

    if (subparts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure permission strings are properly formatted.");
    }
    this-parts.add(subparts);
}

if (this-parts.isEmpty()) {
    throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission strings are properly formatted.");
}

/**
   | A C C E S S O R S / M O D I F I E R S |
   =====================================
   */
protected List<Set<String>> getParts() {
    return this-parts;
}

/**
* Sets the pre-split String parts of this <code>WildcardPermission</code>.
* @since 1.3.0
* @param parts pre-split String parts.
* /
protected void setParts(List<Set<String>> parts) {
    this-parts = parts;
}

/*-----------------------------
| M E T H O D S               |
----------------------------- */
public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }

    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {
            return true;
        } else {
            Set<String> part = getParts().get(i);
            if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
                return false;
            }
            i++;
        }
    }

    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN)) {
            return false;
        }
    }

    return true;
}

display:none;
buffer.append(SUBPART_DIVIDER_TOKEN);
}
}
return buffer.toString();
}

public boolean equals(Object o) {
if (o instanceof WildcardPermission) {
    WildcardPermission wp = (WildcardPermission) o;
    return parts.equals(wp.parts);
}
return false;
}

public int hashCode() {
    return parts.hashCode();
}

*/

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*/

package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**<p/>
/* A { @code PermissionResolver} resolves a String value and converts it into a
/* { @link org.apache.shiro.authz.Permission} instance.
*/
/*<p/>
/* The default { @link WildcardPermissionResolver} should be
/* suitable for most purposes, which constructs { @link WildcardPermission} objects.
* However, any resolver may be configured if an application wishes to use different
* <p/>
* A {@code PermissionResolver} is used by many Shiro components such as annotations, property file
* configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
* and that String needs to be converted to a Permission instance before executing a security check.
* <p/>
* Shiro chooses to support [@link WildcardPermission Wildcardpermission]s by default in almost all components and
* we do that in the form of the [@link WildcardPermissionResolver WildcardPermissionResolver]. One of the nice
* things about [@code WildcardPermission]s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
* 
* @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
** ModularRealmAuthorizer.setPermissionResolver
* @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
** AuthorizingRealm.setPermissionResolver
* @see PermissionResolverAware PermissionResolverAware
* @since 0.9
*/

public interface PermissionResolver {

/**
 * Resolves a Permission based on the given String representation.
 * 
 * @param permissionString the String representation of a permission.
 * @return A Permission object that can be used internally to determine a subject's permissions.
 * @throws InvalidPermissionStringException
 * if the permission string is not valid for this resolver.
 */
Permission resolvePermission(String permissionString);

} /*
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*/
package org.apache.shiro.authz.permission;

public interface RolePermissionResolverAware {

    /**
     * Sets the specified RolePermissionResolver on this instance.
     *
     * @param rpr the RolePermissionResolver being set.
     */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}

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* under the License.
*/
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
 * that
 * might already exist instead of potentially creating one itself.
 * <p>This is mostly implemented by [@link org.apache.shiro.authz.Authorizer Authorizer] and
 * [@link org.apache.shiro.realm.Realm Realm] implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * @since 0.9
 */
public interface PermissionResolverAware {

    /**
     * Sets the specified <tt>PermissionResolver</tt> on this instance.
     * @param pr the <tt>PermissionResolver</tt> being set.
     */
    public void setPermissionResolver(PermissionResolver pr);
}

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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

import org.apache.shiro.authz.permission;
* Thrown by [@link PermissionResolver#resolvePermission(String)] when the String being parsed is not
* valid for that resolver.
* 
* @since 0.9
* */
public class InvalidPermissionStringException extends ShiroException {

    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     * 
     * @param message the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     * 
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }
}

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* /
/**
* Support and default implementations for Shiro's [ @link org.apache.shiro.authz.Permission Permission] interface.
* <p/>
* Also note the [ @link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver] interface, as
* it plays an important part in many of Shiro's [ @link org.apache.shiro.realm.Realm Realm] implementations
* and AOP support.
* /
package org.apache.shiro.authz.permission;
}/#{^
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* under the License.
* /
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
* <tt>PermissionResolver</tt> implementation that returns a new [ @link WildcardPermission WildcardPermission]
* based on the input string.
* *
* @since 0.9
* /
public class WildcardPermissionResolver implements PermissionResolver {

    /**
    * Returns a new [ @link WildcardPermission WildcardPermission] instance constructed based on the specified
    * <tt>permissionString</tt>.
    * 
    */
public Permission resolvePermission(String permissionString) {
    return new WildcardPermission(permissionString);
}

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 *
 */
package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing { @link Marker} instances as
 * appropriate for the logging system currently in use.
 *
 * This class is essentially implemented as a wrapper around an
 * { @link IMarkerFactory} instance bound at compile time.
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }

    /**
     * Return a Marker instance as specified by the name parameter using the
     * previously bound @link IMarkerFactory instance.
     *
     * @param name
     *          The name of the @link Marker object to return.
     * @return marker
     */
    public static Marker getMarker(String name) {
        return markerFactory.getMarker(name);
    }

    /**
     * Create a marker which is detached (even at birth) from the MarkerFactory.
     *
     * @param name the name of the marker
     * @return a dangling marker
     * @since 1.5.1
     */
    public static Marker getDetachedMarker(String name) {
        return markerFactory.getDetachedMarker(name);
    }

    /**
     * Please note that all methods in this class are static.
     */
    @author Ceki G"uml"c"u
    */
* Return the {@link IMarkerFactory}instance in use.
*
* \(\text{<p>The IMarkerFactory instance is usually bound with this class at}\)
* compile time.
*
* \(\text{@return the IMarkerFactory instance in use}\)
*/

```java
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
```
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6.334 spring-aop 3.0.5.RELEASE

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6.336 spring-asm 3.0.3.RELEASE

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6.345 stateless4j 2.5.0

6.346 Stax2 API 3.1.1

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tax2 extension API (for basic Stax API, JSR-173)

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6.347 Streaming API for XML (STAX API 1.0)

1.0.1

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lib/csharp/src/Protocol/TTyp.cs
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lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/ThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
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lib/csharp/src/Thrift.sln
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lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
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lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/

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6.394 XMLUnit 1.3

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 */
6.395 xmlunit-core 2.5.1

6.396 xom 1.0

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6.398 zjsonpatch 0.4.4
6.398.1 Available under license :
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