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```
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*/

package org.acegisecurity;
/**
 * An abstract implementation of the \link AuthenticationManager\.
 *
 * @author Wesley Hall
 * @version $Id: AbstractAuthenticationManager.java 2654 2008-02-18 20:44:09Z luke_t $ */

public abstract class AbstractAuthenticationManager implements AuthenticationManager {

    //~ Instance fields
    //~ Instance fields
    private boolean clearExtraInformation = true;

    //~ Methods

    public final Authentication authenticate(Authentication authRequest) throws AuthenticationException {
        try {
            return doAuthentication(authRequest);
        } catch (AuthenticationException e) {
            e.setAuthentication(authRequest);
            if (clearExtraInformation) {
                e.clearExtraInformation();
            }
            throw e;
        }
    }

    /**
     * <p>An implementation of the authenticate method that calls the abstract method doAuthentication to do its work.</p>
     * <p>If doAuthenticate throws an AuthenticationException then the exception is populated with the failed Authentication 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;
        }
    }

    /**
     * <p>Concrete implementations of this class override this method to provide the authentication service.</p>
     */
    public final Authentication authenticate(Authentication authRequest) throws AuthenticationException {
        try {
            return doAuthentication(authRequest);
        } catch (AuthenticationException e) {
            e.setAuthentication(authRequest);
            if (clearExtraInformation) {
                e.clearExtraInformation();
            }
            throw e;
        }
    }

}
* @param authentication the authentication request object
* @return a fully authenticated object including credentials
* @throws AuthenticationException if authentication fails
*/
protected abstract Authentication doAuthentication(Authentication authentication)
    throws AuthenticationException;

/**
* If set to true, the <tt>extraInformation</tt> set on an <tt>AuthenticationException</tt> will be cleared
* before rethrowing it. This is useful for use with remoting protocols where the information shouldn't
* be serialized to the client. Defaults to 'false'.
* @see AuthenticationException#getExtraInformation()
*/
public void setClearExtraInformation(boolean clearExtraInformation) {
    this.clearExtraInformation = clearExtraInformation;
}

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--activemq-web-console

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2001-12-12

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 */
package org.ajax4jsf.framework.renderer;

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);

}

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Java HTML Tidy - JTidy

HTML parser and pretty printer

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# $Id: output_text.properties,v 1.1.2.1 2007/01/10 19:33:39 alexsmirnov Exp$
#
# Specify defaults when method="text".
#
# XSLT properties do not need namespace qualification.
$method=text$
$media-type=text/plain$

# Xalan-specific output properties. These can be overridden in the stylesheet
# assigning a xalan namespace. For example:
# <xsl:stylesheet version="1.0"
#     xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
#     xmlns:xalan="http://xml.apache.org/xalan">
# <xsl:output method="html" encoding="UTF-8"
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1.24 angular-ui-router 0.2.15

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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
 */
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:

- **BinaryCodec**: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- **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.
- **BCodec**: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- **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.
- **Soundex**: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- Hex converts illegal characters to 255. Issue: 28455.
- 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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o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

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1.46 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: (\<tt\>visit\<tt\> | \<tt\>visitEnum\<tt\> |
 * \<tt\>visitAnnotation\<tt\> | \<tt\>visitArray\<tt\>)* \<tt\>visitEnd\<tt\>.
 * */
public interface AnnotationVisitor {

/**
 * Visits a primitive value of the annotation.
 *
 * @param name the value name.
 * @param value the actual value, whose type must be Byte, Boolean, Character, Short,
 * Integer, Long, Float, Double, String or Type. This value can also be an array
 * of byte, boolean, short, char, int, long, float or double values
 * (this is equivalent to using 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
 * null if this visitor is not interested in visiting
 * this nested annotation. The nested annotation value must be
 * fully visited before calling other methods on this annotation
 * visitor.
 */
 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 visitArray. This is what
 * 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. <i>All the array values must be visited
*      before calling other methods on this annotation visitor</i>.
*/
AnnotationVisitor visitArray(String name);

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

1.49 AspectJ weaver 1.5.3

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1.57 c3p0:JDBC DataSources/Resource Pools

0.9.1.2

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1.58 Castor 0.9.4.3

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This license, the Lesser General Public License, applies to some
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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
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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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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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 */
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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;
}

1.108 fetch 2.0.4

1.109 FindBugs-jsr305 1.3.9

1.109.1 Available under license:
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1.110 Fizzy UI Utils 1.0.1
1.111 font-awesome 4.2.0

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10.0.1

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1.145 jackson-databind 2.9.5

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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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1.149 jackson-mapper-asl 1.9.2

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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.
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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 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.

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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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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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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.

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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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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.

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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.

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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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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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.

6. As an exception to the Sections above, you may also combine or
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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
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to use the modified definitions.)

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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
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7. Royalties and Payments.

Technology specified in Attachment B.

Field of Use:____________________

Royalty per Unit $____________

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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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its purpose remains meaningful.

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government for a redress of grievances.

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,
but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and
seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or
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
of a grand jury, except in cases arising in the land or naval forces, or in the militia, when in actual service in time of
war or public danger; nor shall any person be subject for the same offense to be twice put in jeopardy of life or limb;
nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or
property, without due process of law; nor shall private property be taken for public use, without just compensation.
Amendment VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defense.

Amendment VII

In suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury, shall be otherwise reexamined in any court of the United States, than according to the rules of the common law.

Amendment VIII

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

Amendment IX

The enumeration in the Constitution, of certain rights, shall not be construed to deny or disparage others retained by the people.

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This class provides a default implementation of the SAX2 `Attributes` interface, with the addition of manipulators so that the list can be modified or reused.

There are two typical uses of this class:

- to take a persistent snapshot of an Attributes object in a `startElement` event; or
- to construct or modify an Attributes object in a SAX2 driver or filter.

This class replaces the now-deprecated SAX1 `AttributeListImpl` class; in addition to supporting the updated Attributes interface rather than the deprecated `AttributeList` interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.

@since JAXB1.0
@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)

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1.176 JDOM 1.0

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1.177 jersey-apache-client4 1.19

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1.196 jQuery.dataTables 1.9.4

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This DataTables plugin (v1.9.x) for jQuery was developed out of the desire to allow highly configurable access to 
HTML tables with advanced access features.

For detailed installation, usage and API instructions, please refer to the DataTables web-pages:
http://www.datatables.net

Questions, feature requests and bug reports (etc) can all be asked on the DataTables forums:
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The DataTables source can be found in the media/js/ directory of this archive.

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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
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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 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
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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.

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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
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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.

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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.

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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.

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1.238 netty-socketio 1.7.3

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1.239 ognl 3.1.15

1.240 OmniORB 4.1.0

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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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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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<signature of Ty Coon>, 1 April 1989
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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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1.243 Onion Networks DIME 1.0

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1.250 Picnix Utilities 0.0.12
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**Regexp package**

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1.251 powermock-api-easymock 1.5.5

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/*
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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> subsitutionType;
    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.subsitutionType = 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;
}

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pthreads-win32 - a POSIX threads library for Microsoft Windows

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Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on its own.

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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.
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1.256 rapidjson 0.1

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1.257 react-15.5.4 15.5.4

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1.260 requirejs 2.1.11

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1.276 slf4j-api 1.7.12

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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.
 *<p>
 * 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.
 *
 * @return 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());
}
}
1.278 spiffy 0.05

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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 jQuery TableSorter 2.0.5b (storm-core/src/ui/public/js/jquery.tablesorter.min.js)

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

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For Arbor Tween (storm-core/src/ui/public/js/arbor-tween.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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- javae_web-services_1_2.xsd
- javae_web-services_client_1_2.xsd
- javae_6.xsd
- javae_web-services_1_3.xsd
- javae_web-services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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#
#
# 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)
#
# Get the 'head' of the build environment. This includes default targets and
# paths to tools
#
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+= \ 
$(EOLIST) endif

ifeq "$(RELEASE)" "noopt"

XINCDIRS+= \ 
$(EOLIST)

XCFLAGS+= \ 
$(EOLIST) endif

ifeq "$(RELEASE)" "release"

XINCDIRS+= \ 
$(EOLIST)

XCFLAGS+= \ 
$(EOLIST) endif

...
XDEFINES+= \n$(EOLIST)

XLFLAGS+= \n$(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
$(OBJDIR)/jk_aajp14_worker.o \n$(OBJDIR)/jk_aajp_common.o \n$(OBJDIR)/jk_connect.o \n$(OBJDIR)/jk_context.o \n$(OBJDIR)/jk_lb_worker.o \n$(OBJDIR)/jk_map.o \n$(OBJDIR)/jk_md5.o \n$(OBJDIR)/jk_msg_buff.o \n$(OBJDIR)/jk_pool.o \n$(OBJDIR)/jk_shm.o \n$(OBJDIR)/jk_sockbuf.o \n$(OBJDIR)/jk_status.o \n$(OBJDIR)/jk_uri_worker_map.o \n$(OBJDIR)/jk_url.o \n$(OBJDIR)/jk_util.o \n$(OBJDIR)/jk_worker.o \n$(OBJDIR)/mod_jk.o \n$(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 = \n$(NOVELLlibc)/imports/libcpre.o \n$(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 = \naprlib \nlibc \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 = \ 
@aprlib.imp \ 
@httpd.imp \ 
@libc.imp \ 
@ws2nlm.imp \ 
$(EOLIST)

# Any symbols exported to here
#
FILES_nlm_exports = \ 
jk_module \ 
$(EOLIST)

# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \ 
$(EOLIST)

# implement targets and dependancies (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
#

-include $(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) +
 SRCSSTMF('/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) +
 LANGVL(*EXTENDED) +
 TERASPACE(*YES) +
 TGTRLS(*CURRENT) +
 INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
 SRCSSTMF('/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) +
 LANGVL(*EXTENDED) +
 TERASPACE(*YES) +
 TGTRLS(*CURRENT) +
 INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
 SRCSSTMF('/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') +
TEXT('jk_ajp12_worker.c') +
OPTIMIZE(40) +
LOCALETYPEN('LOCALIZATION') +
SYSIFCOPT('IFSIO') +
LANGLVL('EXTENDED') +
TERASPACE('YES') +
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' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '
REENTRANT') +
TEXT('jk_ajp13.c') +
OPTIMIZE(40) +
LOCALETYPEN('LOCALIZATION') +
SYSIFCOPT('IFSIO') +
LANGLVL('EXTENDED') +
TERASPACE('YES') +
TGTRLS('CURRENT') +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD 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) +
LOCALETYPEN('LOCALIZATION') +
SYSIFCOPT('IFSIO') +
LANGLVL('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) +
LOCALETYPEN('LOCALIZATION') +
SYSIFCOPT('IFSIO') +
LANGLVL('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) +  
LOCALETYPF(*LOCALEUTF) +  
SYSFICOPT(*IFSIO) +  
LANGLVL(*EXTENDED) +  
TERASPACE(*YES) +  
TGRRLS(*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) +  
LOCALETYPF(*LOCALEUTF) +  
SYSFICOPT(*IFSIO) +  
LANGLVL(*EXTENDED) +  
TERASPACE(*YES) +  
TGRRLS(*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) +  
LOCALETYPF(*LOCALEUTF) +  
SYSFICOPT(*IFSIO) +  
LANGLVL(*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) +  
LOCALETYPF(*LOCALEUTF) +  
SYSFICOPT(*IFSIO) +
LANGlvl(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*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_APCHE_MD5' '_REENTRANT') +
TEXT('jk_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_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_md5.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_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APCHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.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_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APCHE_MD5' '_REENTRANT') +
OCR results:
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) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*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) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*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/QZSRCORE +
    QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
  TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=\%Release20
INTDIR=\%Release20

---

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APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=\Release24
INTDIR=\Release24
!ELSE
!IFDEF APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=\Release22
INTDIR=\Release22
!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$(SO_VERSION)$SO_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 "$(INTDIR)\mod_jk_src.idb"
-@erase "$(INTDIR)\mod_jk_src.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"
/libpath:"$(APACHE2_HOME)\lib" /lib:$(EXTRA_LIBS) /base:0x6A6B0000 /subsystem:windows /dll /incremental:no
/out:"$(OUTDIR)\$(TARGET).so" /implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS=
  "$(INTDIR)\jk_ajp12_worker.obj" \n  "$(INTDIR)\jk_ajp13.obj" \n  "$(INTDIR)\jk_ajp13_worker.obj" \n  "$(INTDIR)\jk_ajp14.obj" \n  "$(INTDIR)\jk_ajp14_worker.obj" \n  "$(INTDIR)\jk_ajp_common.obj" \n  "$(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::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

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

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

MTL_PROJ=nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/I 0x409 /fo"$(INTDIR)\jk.res" /i ".\common" /i /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" : $(SOURCE) "$\(\text{INTDIR}\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp13.c

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

SOURCE=..\common\jk_ajp13_worker.c

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

SOURCE=..\common\jk_ajp14.c

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

SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$\(\text{INTDIR}\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp_common.c

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

SOURCE=..\common\jk_connect.c

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

SOURCE=..\common\jk_context.c

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

SOURCE=..\common\jk_shm.c

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

SOURCE=..\common\jk_sockbuf.c

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

SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)
SOURCE=..'\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$\{INTDIR\}\" $\{CPP\} $\{CPP_PROJ\} $(SOURCE)

SOURCE=..'\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$\{INTDIR\}\" $\{CPP\} $\{CPP_PROJ\} $(SOURCE)

SOURCE=..'\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$\{INTDIR\}\" $\{CPP\} $\{CPP_PROJ\} $(SOURCE)

SOURCE=.'\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$\{INTDIR\}\" $\{CPP\} $\{CPP_PROJ\} $(SOURCE)

PGM

CRTC MOD 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) +
 SYSIFCOPT(*IFSIO) +
 LANGLVL(*EXTENDED) +
 TGTRLS(*CURRENT) +
 INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTC MOD 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) +
SYSIFCOPT(*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) +
SYSIFCOPT(*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) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCNUMD MODUL(OMOD_JKJK_AJP14_W) +
SRCHSTMIF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCNUMD MODUL(OMOD_JKJK_CONNECT) +
SRCHSTMIF('/home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
  'USE_SO_SNDTIMEO') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCNUMD MODUL(OMOD_JKJK_CONTEXT) +
SRCHSTMIF('/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(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCNUMD MODUL(OMOD_JKJK_LB_WORK) +
SRCHSTMIF('/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') +

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OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*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' 'HAVE_APR' '*. XOPEN_SOURCE=520' +
   'USE_APLACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*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' 'HAVE_APR' '*. XOPEN_SOURCE=520' +
   'USE_APLACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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_buff.c') +
DEFINE('AS400' 'HAVE_APR' '*. XOPEN_SOURCE=520' +
   'USE_APLACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCAL) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '*. XOPEN_SOURCE=520' +
   'USE_APLACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPEn!*LOCALE*! +
SYSIFCOPTn!*IFSIO*! +
LANGLVLn!*EXTENDED*! +
TGTRLSn!*CURRENT*! +
INCDIRn!/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include' )

CRTCMTTF RUTC MODU L MOD_JK/JK SOCKBUF) +
SRCSTMFn'/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINEn!'AS400' 'HAVE APR' _XOPEN_SOURCE==520' +
USE APACHE MD5 ' _REENTRANT' +
TEXTn'(jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYPEn!*LOCALE*! +
SYSIFCOPTn!*IFSIO*! +
LANGLVLn!*EXTENDED*! +
TGTRLSn!*CURRENT*! +
INCDIRn!/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include' )

CRTCMTTF RUTC MODU L MOD_JK/JK URI W M) +
SRCSTMFn'/home/apache/jk/native/common/jk_uri_worker_map.c') +
DEFINEn!'AS400' 'HAVE APR' _XOPEN_SOURCE==520' +
USE APACHE MD5 ' _REENTRANT' +
TEXTn'(jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALETYPEn!*LOCALE*! +
SYSIFCOPTn!*IFSIO*! +
LANGLVLn!*EXTENDED*! +
TGTRLSn!*CURRENT*! +
INCDIRn!/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include' )

CRTCMTTF RUTC MODU L MOD_JK/JK UTIL) +
SRCSTMFn'/home/apache/jk/native/common/jk_util.c') +
DEFINEn!'AS400' 'HAVE APR' _XOPEN_SOURCE==520' +
USE APACHE MD5 ' _REENTRANT' +
TEXTn'(jk_util.c') +
OPTIMIZE(40) +
LOCALETYPEn!*LOCALE*! +
SYSIFCOPTn!*IFSIO*! +
LANGLVLn!*EXTENDED*! +
TGTRLSn!*CURRENT*! +
INCDIRn!/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include' )

CRTCMTTF RUTC MODU L MOD_JK/JK UTIL) +
SRCSTMFn'/home/apache/jk/native/common/jk_util.c') +
DEFINEn!'AS400' 'HAVE APR' _XOPEN_SOURCE==520' +
USE APACHE MD5 ' _REENTRANT' +
TEXTn'(jk_util.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*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) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*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) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_shm.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCLOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
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 +
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Written by: Philip Hazel <ph10@cam.ac.uk>

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1.1

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2.39 Javassist 3.20.0-GA

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Javassist version 3

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2.65 spymemcached 2.8.0

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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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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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/* NSC -- new Scala compiler
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* @author Martin Odersky
*/
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3.80 scala-library 2.9.1

3.81 Servlet Specification 2.5 API 6.1.14

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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.
 * *
 * @author Ceki Gülcü
 */
public class MarkerFactory {

    static IMarkerFactory markerFactory;
    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {

        }
    }
}

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.
 * *
 * @author Ceki G\\uml;lc\\uml;
 */
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);
}

/**
 * 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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v 1.2

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2000-05-05
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```

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 */

4.27 asterisk-java 1.0.0.M3

4.28 aws-java-sdk-cloudfront 1.11.21
4.29 aws-java-sdk-core 1.11.21

4.30 aws-java-sdk-kms 1.11.21

4.31 aws-java-sdk-s3 1.11.21

4.32 axiom 1.2.13

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4.37 axis2-transport-local 1.6.2
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*/
package org.apache.batik.ext.awt.image.codec.util;

import java.awt.Point;
import java.awt.Rectangle;
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;
import java.util.Vector;
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

/**
 * A simple class implemented the <code>RenderedImage</code> interface. Only the <code>getTile()</code> method needs to be implemented by subclasses. The instance variables must also be filled in properly.
 *
 * <p>Normally in JAI <code>PlanarImage</code> is used for this purpose, but in the interest of modularity the use of <code>PlanarImage</code> has been avoided.
 *
 * @version $Id: SimpleRenderedImage.java 498747 2007-01-22 18:56:19Z dvholten $
 */
public abstract class SimpleRenderedImage implements RenderedImage {

/** The X coordinate of the image's upper-left pixel. */
protected int minX;

/** The Y coordinate of the image's upper-left pixel. */
protected int minY;

/** The image's width in pixels. */
protected int width;

/** The image's height in pixels. */
protected int height;

/** The width of a tile. */
protected int tileWidth;

/** The height of a tile. */
protected int tileHeight;

/** The X coordinate of the upper-left pixel of tile (0, 0). */
protected int tileGridXOffset = 0;

/** The Y coordinate of the upper-left pixel of tile (0, 0). */
protected int tileGridYOffset = 0;

/** The image's SampleModel. */
protected SampleModel sampleModel = null;
/** The image's ColorModel. */
protected ColorModel colorModel = null;

/** The image's sources, stored in a Vector. */
protected List sources = new ArrayList();

/** A Hashtable containing the image properties. */
protected Map properties = new HashMap();

public SimpleRenderedImage() {

/** Returns the X coordinate of the leftmost column of the image. */
public int getMinX() {
    return minX;
}

/**
 * Returns the X coordinate of the column immediately to the
 * right of the rightmost column of the image.  getMaxX() is
 * implemented in terms of getMinX() and getWidth() and so does
 * not need to be implemented by subclasses.
 */
public final int getMaxX() {
    return getMinX() + getWidth();
}

/** Returns the X coordinate of the uppermost row of the image. */
public int getMinY() {
    return minY;
}

/**
 * Returns the Y coordinate of the row immediately below the
 * bottom row of the image.  getMaxY() is implemented in terms of
 * getMinY() and getHeight() and so does not need to be
 * implemented by subclasses.
 */
public final int getMaxY() {
    return getMinY() + getHeight();
}

/** Returns the width of the image. */
public int getWidth() {
    return width;
}

/** Returns the height of the image. */
public int getHeight() {
    return height;
}

/** Returns a Rectangle indicating the image bounds. */
public Rectangle getBounds() {
    return new Rectangle(getMinX(), getMinY(),
                         getWidth(), getHeight());
}

/** Returns the width of a tile. */
public int getTileWidth() {
    return tileWidth;
}

/** Returns the height of a tile. */
public int getTileHeight() {
    return tileHeight;
}

/**
 * Returns the X coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridXOffset() {
    return tileGridXOffset;
}

/**
 * Returns the Y coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridYOffset() {
    return tileGridYOffset;
}

/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
    return XToTileX(getMinX());
}

/**
 * Returns the horizontal index of the rightmost column of tiles.
 * getMaxTileX() is implemented in terms of getMaxX()
 * and so does not need to be implemented by subclasses.
 */
public int getMaxTileX() {
    return XToTileX(getMaxX() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the
 * horizontal direction.  getMaxTiles() is implemented in terms
 * of getMaxTileX() and getMaxTileY() and so does not need to be
 * implemented by subclasses.
 */
public int getNumXTiles() {
    return getMaxTileX() - getMinTileX() + 1;
}

/**
 * Returns the vertical index of the uppermost row of tiles.  getMinTileY()
 * is implemented in terms of getMinY() and so does not need to be
 * implemented by subclasses.
 */
public int getMinTileY() {
    return YToTileY(getMinY());
}

/**
 * Returns the vertical index of the bottom row of tiles.  getMaxTileY()
 * is implemented in terms of getMaxY() and so does not need to
 * be implemented by subclasses.
 */
public int getMaxTileY() {
    return YToTileY(getMaxY() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the vertical
 * direction.  getNumYTiles() is implemented in terms
 * of getMinTileY() and getMaxTileY() and so does not need to be
 * implemented by subclasses.
 */
public int getNumYTiles() {
    return getMaxTileY() - getMinTileY() + 1;
}

/**
 * Returns the SampleModel of the image. */
public SampleModel getSampleModel() {
    return sampleModel;
}

/**
 * Returns the ColorModel of the image. */
public ColorModel getColorModel() {
    return colorModel;
}

/**
 * Gets a property from the property set of this image. If the
 * property name is not recognized, <code>null</code> will be returned.
 * @param name the name of the property to get, as a
 * <code>String</code>.
 * @return a reference to the property
 * <code>Object</code>, or the value <code>null</code>
 */
public Object getProperty(String name) {
    name = name.toLowerCase();
    return properties.get(name);
}

/**
 * Returns a list of the properties recognized by this image. If
 * no properties are available, an empty String[] will be returned.
 * @return an array of <code>String</code>s representing valid
 * property names.
 */
public String[] getPropertyNames() {
    String[] names = new String[properties.size()];
    int index = 0;
    Enumeration e = properties.keys();
    while (e.hasMoreElements()) {
        String name = (String)e.nextElement();
        names[index++] = name;
    }
    properties.keySet().toArray(names);
    return names;
}

/**
 * Returns an array of <code>String</code>s recognized as names by
 * this property source that begin with the supplied prefix. If
 * no property names match, <code>null</code> will be returned.
 * The comparison is done in a case-independent manner.
 * @param prefix the prefix to search for.
 * @return an array of <code>String</code>s, or <code>null</code>
 * for no matches.
 */
public String[] getMatches(String prefix) {
    Enumeration e = properties.keys();
    int index = 0;
    while (e.hasMoreElements()) {
        String name = (String)e.nextElement();
        if (name.startsWith(prefix)) {
            String[] names = new String[0];
            names[index++] = name;
        }
    }
    return names;

public String[] getPropertyNames(String prefix) {
    String[] propertyNames = getPropertyNames();
    if (propertyNames == null) {
        return null;
    }

    prefix = prefix.toLowerCase();

    List names = new ArrayList();
    for (int i = 0; i < propertyNames.length; i++) {
        if (propertyNames[i].startsWith(prefix)) {
            names.add(propertyNames[i]);
        }
    }

    if (names.size() == 0) {
        return null;
    }

    // Copy the strings from the Vector over to a String array.
    String[] prefixNames = new String[names.size()];
    names.toArray(prefixNames);
    return prefixNames;
}

// Utility methods.

/**
 * Converts a pixel's X coordinate into a horizontal tile index
 * relative to a given tile grid layout specified by its X offset
 * and tile width.
 */
public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    x -= tileGridXOffset;
    if (x < 0) {
        x += 1 - tileWidth; // Force round to -infinity
    }
    return x/tileWidth;
}
```java
/**
 * Converts a pixel's Y coordinate into a vertical tile index
 * relative to a given tile grid layout specified by its Y offset
 * and tile height.
 */
public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {
    y -= tileGridYOffset;
    if (y < 0) {
        y += 1 - tileHeight; // Force round to -infinity
    }
    return y/tileHeight;
}

/**
 * Converts a pixel's X coordinate into a horizontal tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param x the X coordinate of a pixel.
 * @return the X index of the tile containing the pixel.
 */
public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param y the Y coordinate of a pixel.
 * @return the Y index of the tile containing the pixel.
 */
public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */
public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}
```
* Converts a vertical tile index into the Y coordinate of
* its upper left pixel relative to a given tile grid layout
* specified by its Y offset and tile height.
*/
public static int tileYToY(int ty, int tileGridYOffset, int tileHeight) {
    return ty*tileHeight + tileGridYOffset;
}

/**
* Converts a horizontal tile index into the X coordinate of its
* upper left pixel. This is a convenience method. No attempt is made
* to detect out-of-range indices.
*
* @param tx the horizontal index of a tile.
* @return the X coordinate of the tile's upper left pixel.
*/
public int tileXToX(int tx) {
    return tx*tileWidth + tileGridXOffset;
}

/**
* Converts a vertical tile index into the Y coordinate of its
* upper left pixel. This is a convenience method. No attempt is made
* to detect out-of-range indices.
*
* @param ty the vertical index of a tile.
* @return the Y coordinate of the tile's upper left pixel.
*/
public int tileYToY(int ty) {
    return ty*tileHeight + tileGridYOffset;
}

public Vector getSources() {
    return null;
}

/**
* Returns the entire image in a single Raster. For images with
* multiple tiles this will require making a copy.
*
* <p> The returned Raster is semantically a copy. This means
* that updates to the source image will not be reflected in the
* returned Raster. For non-writable (immutable) source images,
* the returned value may be a reference to the image's internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @return a Raster containing a copy of this image’s data.
*/
public Raster getData() {
    Rectangle rect = new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
    return getData(rect);
}

/**
* Returns an arbitrary rectangular region of the RenderedImage
* in a Raster. The rectangle of interest will be clipped against
* the image bounds.
*
* <p> The returned Raster is semantically a copy. This means
* that updates to the source image will not be reflected in the
* returned Raster. For non-writable (immutable) source images,
* the returned value may be a reference to the image’s internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @param bounds the region of the RenderedImage to be returned.
*/
public Raster getData(Rectangle bounds) {
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);
    Raster tile;
    if ((startX == endX) && (startY == endY)) {
        tile = getTile(startX, startY);
        return tile.createChild(bounds.x, bounds.y,
            bounds.width, bounds.height,
            bounds.x, bounds.y, null);
    } else {
        // Create a WritableRaster of the desired size
        SampleModel sm =
            sampleModel.createCompatibleSampleModel(bounds.width,
            bounds.height);
        // Translate it
        WritableRaster dest =
            Raster.createWritableRaster(sm, bounds.getLocation());
    }
}
for (int j = startY; j <= endY; j++) {
    for (int i = startX; i <= endX; i++) {
        tile = getTile(i, j);
        Rectangle intersectRect =
            bounds.intersection(tile.getBounds());
        Raster liveRaster = tile.createChild(intersectRect.x,
            intersectRect.y,
            intersectRect.width,
            intersectRect.height,
            intersectRect.x,
            intersectRect.y,
            null);
        dest.setDataElements(0, 0, liveRaster);
    }
}
return dest;

/**
 * Copies an arbitrary rectangular region of the RenderedImage
 * into a caller-supplied WritableRaster. The region to be
 * computed is determined by clipping the bounds of the supplied
 * WritableRaster against the bounds of the image. The supplied
 * WritableRaster must have a SampleModel that is compatible with
 * that of the image.
 *
 * <p> If the raster argument is null, the entire image will
 * be copied into a newly-created WritableRaster with a SampleModel
 * that is compatible with that of the image.
 *
 * @param dest a WritableRaster to hold the returned portion of
 * the image.
 * @return a reference to the supplied WritableRaster, or to a
 * new WritableRaster if the supplied one was null.
 */
public WritableRaster copyData(WritableRaster dest) {
    Rectangle bounds;
    Raster tile;

    if (dest == null) {
        bounds = getBounds();
        Point p = new Point(minX, minY);
        /* A SampleModel to hold the entire image. */
        SampleModel sm = sampleModel.createCompatibleSampleModel(
            width, height);
        dest = Raster.createWritableRaster(sm, p);
int startX = XToTileX(bounds.x);
int startY = YToTileY(bounds.y);
int endX = XToTileX(bounds.x + bounds.width - 1);
int endY = YToTileY(bounds.y + bounds.height - 1);

for (int j = startY; j <= endY; j++) {
    for (int i = startX; i <= endX; i++) {
        tile = getTile(i, j);
        Rectangle intersectRect =
            bounds.intersection(tile.getBounds());
        Raster liveRaster = tile.createChild(intersectRect.x,
                                             intersectRect.y,
                                             intersectRect.width,
                                             intersectRect.height,
                                             intersectRect.x,
                                             intersectRect.y,
                                             null);

        /*
         * WritableRaster.setDataElements takes into account of
         * inRaster's minX and minY and add these to x and y. Since
         * liveRaster has the origin at the correct location, the
         * following call should not again give these coordinates in
         * places of x and y.
         */
        dest.setDataElements(0, 0, liveRaster);
    }
}
return dest;

/*
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package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.OutputStream;

/**
 * A partial implementation of the ImageEncoder interface useful for
 * subclassing.
 *
 * &lt;p&gt;&lt;b&gt;This class is not a committed part of the JAI API. It may
 * be removed or changed in future releases of JAI.&lt;/b&gt;
 *
 * &lt;version&gt;$Id: ImageEncoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $&lt;/version&gt;
 */

public abstract class ImageEncoderImpl implements ImageEncoder {

    /** The OutputStream associated with this ImageEncoder. */
    protected OutputStream output;

    /** The ImageEncodeParam object associated with this ImageEncoder. */
    protected ImageEncodeParam param;

    /**
     * Constructs an ImageEncoderImpl with a given OutputStream
     * and ImageEncodeParam instance.
     */
    public ImageEncoderImpl(OutputStream output,
                            ImageEncodeParam param) {
        this.output = output;
        this.param = param;
    }

    /**
     * Returns the current parameters as an instance of the
     * ImageEncodeParam interface. Concrete implementations of this
     * interface will return corresponding concrete implementations of
     * the ImageEncodeParam interface. For example, a JPEGImageEncoder
     * will return an instance of JPEGEncodeParam.
     */

public ImageEncodeParam getParam() {
    return param;
}

/**
 * Sets the current parameters to an instance of the
 * ImageEncodeParam interface. Concrete implementations
 * of ImageEncoder may throw a RuntimeException if the
 * params argument is not an instance of the appropriate
 * subclass or subinterface. For example, a JPEGImageEncoder
 * will expect param to be an instance of JPEGEncodeParam.
 */
public void setParam(ImageEncodeParam param) {
    this.param = param;
}

/** Returns the OutputStream associated with this ImageEncoder. */
public OutputStream getOutputStream() {
    return output;
}

/**
 * Encodes a Raster with a given ColorModel and writes the output
 * to the OutputStream associated with this ImageEncoder.
 */
public void encode(Raster ras, ColorModel cm) throws IOException {
    RenderedImage im = new SingleTileRenderedImage(ras, cm);
    encode(im);
}

/**
 * Encodes a RenderedImage and writes the output to the
 * OutputStream associated with this ImageEncoder.
 */
public abstract void encode(RenderedImage im) throws IOException;

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package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.InputStream;

/**
 * A partial implementation of the <code>ImageDecoder</code> interface
 * useful for subclassing.
 *
 * @version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
 */
public abstract class ImageDecoderImpl implements ImageDecoder {

    /**
     * The <code>SeekableStream</code> associcted with this
     * <code>ImageEncoder</code>.
     */
    protected SeekableStream input;

    /**
     * The <code>ImageDecodeParam</code> object associated with this
     * <code>ImageEncoder</code>.
     */
    protected ImageDecodeParam param;

    /**
     * Constructs an <code>ImageDecoderImpl</code> with a given
     * <code>SeekableStream</code> and <code>ImageDecodeParam</code>
     * instance.
     */
    public ImageDecoderImpl(SeekableStream input,
                            ImageDecodeParam param) {
        this.input = input;
        this.param = param;
    }

    /**
     * Constructs an <code>ImageDecoderImpl</code> with a given
     * <code>InputStream</code> and <code>ImageDecodeParam</code>
     * instance. The <code>input</code> parameter will be used to
* construct a `<code>ForwardSeekableStream</code>`; if the ability
* to seek backwards is required, the caller should construct
* an instance of `<code>SeekableStream</code>` and
* make use of the other constructor.
*/

```java
public ImageDecoderImpl(InputStream input,
    ImageDecodeParam param) {
    this.input = new ForwardSeekableStream(input);
    this.param = param;
}
```

/**
 * Returns the current parameters as an instance of the
 * `<code>ImageDecodeParam</code>` interface. Concrete
 * implementations of this interface will return corresponding
 * concrete implementations of the `<code>ImageDecodeParam</code>`
 * interface. For example, a `<code>JPEGImageDecoder</code>` will
 * return an instance of `<code>JPEGDecodeParam</code>`.
 */

```java
public ImageDecodeParam getParam() {
    return param;
}
```

/**
 * Sets the current parameters to an instance of the
 * `<code>ImageDecodeParam</code>` interface. Concrete
 * implementations of `<code>ImageDecoder</code>` may throw a
 * `<code>RuntimeException</code>` if the `<code>param</code>`
 * argument is not an instance of the appropriate subclass or
 * subinterface. For example, a `<code>JPEGImageDecoder</code>`
 * will expect `<code>param</code>` to be an instance of
 * `<code>JPEGDecodeParam</code>`.
 */

```java
public void setParam(ImageDecodeParam param) {
    this.param = param;
}
```

/**
 * Returns the `<code>SeekableStream</code>` associated with
 * this `<code>ImageDecoder</code>`.
 */

```java
public SeekableStream getInputStream() {
    return input;
}
```

/**
 * Returns the number of pages present in the current stream.
 * By default, the return value is 1. Subclasses that deal with
public int getNumPages() throws IOException {
    return 1;
}

/**
 * Returns a <code>Raster</code> that contains the decoded contents of the <code>SeekableStream</code> associated with this <code>ImageDecoder</code>. Only the first page of a multi-page image is decoded.
 */
public Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

/**
 * Returns a <code>Raster</code> that contains the decoded contents of the <code>SeekableStream</code> associated with this <code>ImageDecoder</code>. The given page of a multi-page image is decoded. If the page does not exist, an IOException will be thrown. Page numbering begins at zero.
 *
 * @param page The page to be decoded.
 */
public Raster decodeAsRaster(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}

/**
 * Returns a <code>RenderedImage</code> that contains the decoded contents of the <code>SeekableStream</code> associated with this <code>ImageDecoder</code>. Only the first page of a multi-page image is decoded.
 */
public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

/**
 * Returns a <code>RenderedImage</code> that contains the decoded contents of the <code>SeekableStream</code> associated with this <code>ImageDecoder</code>. The given page of a multi-page image is decoded. If the page does not exist, an IOException will be thrown. Page numbering begins at zero.
 */
4.40 batik-util 1.7 :NCCM 2.8

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</module>

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JUnit test library (junit-3.8.1.jar)

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4.43 Bean Validation API 1.1.0.Final

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will operate properly with a modified version of the library, if

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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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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 -P test-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>
```
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:
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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1.1. Quickstart: Typical lifecycle phases
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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/

* 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>
    </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
group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

2.3. Executing different groups
------------------------------
A single test can be executed using the test property. The value is the short name (not the fully qualified package
different groups
------------------------------
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

2.4. 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=org/jboss/cache/multiplexer/* 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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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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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

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file is unrestricted, regardless of whether it is legally a derivative

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work. (Executables containing this object code plus portions of the

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Library will still fall under Section 6.)

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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

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link a "work that uses the Library" with the Library to produce a

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under terms of your choice, provided that the terms permit

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of these things:

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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

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e) Verify that the user has already received a copy of these

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Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception,

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normally distributed (in either source or binary form) with the major

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which the executable runs, unless that component itself accompanies
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* Third-Party Component Notices

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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
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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
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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

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<li class="level2"><div class="li"><span class="li"><a href="#changes-in-version-502-merlia-202-8-may-2003" class="inlinetoc">17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#changes-in-version-503-merlia-203-4-nov-2004" class="inlinetoc">17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)</a></span></div></li>
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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.:

```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>

<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>
</ul>
Microsoft SQL Server 6.5 with all Service Packs (32 bit / 64 bit)

2.2 Implemented Features

<table>
<thead>
<tr>
<th></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>Feature</td>
<td>Col1</td>
<td>Col2</td>
<td>Col3</td>
<td>Col4</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td></td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
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<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>No</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>
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</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:
<h4 id="for-microsoft-sql-server-65">For Microsoft SQL Server 6.5:</h4>

<p>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.</p>

</div>

<h4 id="for-microsoft-sql-server-70">For Microsoft SQL Server 7.0:</h4>

<p>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.</p>

<p>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:
</p><pre class="code bash">telnet \&lt;hostname or ip address\&gt; \&lt;port number\</pre>
<p>If the connection is refused then the hostname or the port number is incorrect.
</p>

<h3 id="login-types">2.4 Login Types</h3>

<p>The SQL Server supports three authentication types. These are:
</p><ul>
<li class="level1"> SQL Server authentication</li>
<li class="level1"> Windows NT authentication (trusted connection)</li>
<li class="level1"> Mixed (or both) authentications</li>
</ul>
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.

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>DataSource</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>com.inet.tds.TdsDataSource</code></td>
</tr>
<tr>
<td>This is a simple DataSource. Also named JDBC 1 DataSource.</td>
</tr>
</tbody>
</table>
<tr class="row1">
<td class="col0">com.inet.tds.PDataSource</td><td class="col1">This is pooled DataSource. </td>
</tr>
<tr class="row2">
<td class="col0">com.inet.tds.DTCDataSource</td><td class="col1">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>
</table></div>

For a list of DataSource Properties look in the <a href="doc/index.html" target="_blank" class="wikilink1">API documentation</a>.

</div>

</div>

<h3 id="jdbc-url-subprotocols">2.6 JDBC URL Subprotocols</h3>

<div class="level3">
<div class="table ">
<table class="inline">
<tr class="row0">
<td class="col0">jdbc:inetdae7: ....</td><td class="col1">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 class="row1">
<td class="col0">jdbc:inetdae7a: ....</td><td class="col1">support of the SQL Server 7.0 (or higher) feature with <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> compliance is required. <a href="#jdbc-40-api" title="see character converting JDBC 4.0 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>
### 2.8 JDBC URL Syntax of the Pooled Driver

The pooled driver is only part of OPTA and MERLIA.

<table>
<thead>
<tr>
<th>JDBC URL Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetpool:serverName/pipe/instanceName</td>
<td>with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
</tr>
<tr>
<td>jdbc:inetpool:serverName/pipe</td>
<td>with named pipes</td>
</tr>
<tr>
<td>jdbc:inetpool:serverName/pipe/MSSQL$instancename/sql/query</td>
<td>named instance</td>
</tr>
</tbody>
</table>

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
2.9 Implemented Driver Properties

<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;&lt;br/&gt;&quot;&quot;&lt;br/&gt;&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>Parameter</td>
<td>Default</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
</tr>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot;</td>
</tr>
<tr>
<td>logging</td>
<td>&quot;false&quot;</td>
</tr>
<tr>
<td>sql7</td>
<td>&quot;false&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>&quot;false&quot;</td>
</tr>
<tr>
<td>loginTimeout</td>
<td></td>
</tr>
</tbody>
</table>
DriverManager.getLoginTimeout()

</td>
</tr>
<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". 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". "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) A list of valid values can find in chapter "Scrolling Cursor Types" class="wikilink1". </td>
</tr>
<tr class="row20">
<th class="col0 leftalign">useInsteadOfTrigger</th>
<td class="col1 leftalign">default is "false". "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. 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.</td>
</tr>
<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 );</td>
</tr>
<tr>
<td></td>
<td>&quot;false&quot; 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.</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 instance:</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>Property</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</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 on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.</td>
</tr>
<tr>
<td>packetSize</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>mode</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>typeMapping</td>
<td>default is jdbc4br/Which data type constant should be used from the driver. Available options are &lt;em&gt;jdbc3&lt;/em&gt;, &lt;em&gt;jdbc4&lt;/em&gt; and &lt;em&gt;odbc&lt;/em&gt;. 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>
<td>sqlxml</td>
<td>default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.</td>
</tr>
</tbody>
</table>

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
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.

<h4 id="withdatasourcejava">WithDataSource.java</h4>
<p>How to create a connection with a datasource.</p>

<h4 id="withpooldatasourecejava">WithPoolDataSourece.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 PLEXAtm) 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="withjndi">WithJNDI.java</h4>
<p>This demonstrates the use of a DataSource with a JNDI directory.</p>
<div>

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

This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA®).  

</div>

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

A sample with EJB and a XADataSource.  

</div>

<h2 id="named-pipes">3. Named Pipes</h2>

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.  

</div>

<h2 id="escape-clauses">4. Escape Clauses</h2>

The driver implements all escape clauses as follows:  

</div>
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(&#039;Param1&#039;[,,&#039;Param2&#039;];[?][...])}
{? = call storedProcedures(&#039;Param1&#039;[,,&#039;Param2&#039;];[?][...])}
```

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**

```{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 TIMESTAMPADD(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

<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=\"+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:
\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'national text' )"
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.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 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 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.
</p>

<p>
This is the precedence order for the MS SQL Server data types:
</p>
<ul>
<li class="level1">sql_variant (highest)</li>
<li class="level1">datetime</li>
<li class="level1">smalldatetime</li>
<li class="level1">float</li>
<li class="level1">real</li>
<li class="level1">decimal</li>
<li class="level1">money</li>
<li class="level1">smallmoney</li>
<li class="level1">bigint</li>
<li class="level1">int</li>
<li class="level1">smallint</li>
<li class="level1">tinyint</li>
<li class="level1">bit</li>
<li class="level1">ntext</li>
<li class="level1">text</li>
<li class="level1">image</li>
<li class="level1">timestamp</li>
<li class="level1">uniqueidentifier</li>
<li class="level1">nvarchar</li>
<li class="level1">nchar</li>
<li class="level1">varchar</li>
</ul>
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>⇐ 4000 NVARCHAR</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 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))"

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward</td>
</tr>
<tr>
<td></td>
<td>A forward only cursor with activated optimization.</td>
</tr>
</tbody>
</table>
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>
</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.
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.

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>
</table></div>

<p>
example URLs:<br/>
jdbc:inetpool:inetora:localhost?database=orcl&amp;useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=100&amp;totalTimeOfAttempts=10<br/>

</p>
</div>

<h3 id="configuration-in-java">10.3.2 Configuration in Java</h3>
<div class="level3">
<p>
For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java.<br/>
A FailoverListener can be only added to a Connection, that implements the interface TAFConnection.<br/>
Those Connection can be received from:
</p>
<ul>
<li class="level1">
com.inet.pool.PoolDriver
</li>
<li class="level1">
com.inet.ora.PDataSource
</li>
<li class="level1">
com.inet.tds.PDataSource
</li>
<li class="level1">
com.inet.syb.PDataSource
</li>
<li class="level1">
com.inet.drda.PDataSource
</li>
</ul>

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection.<br/>
example:<br/>
<pre class="code java"><span class="co1">//receive a Connection</span>
<span class="kw1">Class</span>.<span class="me1">forName</span><span class="br0">(</span><span class="st0”&quot;com.inet.pool.PoolDriver&quot;</span><span class="br0">;</span>
</pre>

</div>

<div class="level2">
<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>
</div>

<li class="level1">Modify the database</li>

You can modify the database with the following SQL statement:

```sql
ALTER DATABASE <database name> SET ALLOW_SNAPSHOT_ISOLATION ON
```
If you do not change the level at using of connection then you can set it at creation of the connection with:<br/>
initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT<br/>
</div>
</li>
<li class="level1"><div class="li"> <strong>Executing a statement</strong><br/>
You can also change it with the following Java line:<br/>
conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");<br/>
</div>
</li>
<li class="level1"><div class="li"> <strong>setTransactionIsolation</strong><br/>
Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:<br/>
conn.setTransactionIsolation(4096);<br/>
</div>
</li>
</ol>
<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>
<div class="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 );<br/>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/>
....<br/>
</td><td class="col2"> </td>
</tr>
</table>
</div>
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"

db:inetdae7:localhost?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 @):
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       " &quot;you receive the value "abc".)/p>
</li>
<li class="level1"><div class="li"> The classes Array, Ref and <abbr title="Uniform Resource Locator">URL</abbr> are not supported because this are not supported by the SQL Server.</div>
</li>
<li class="level1"><div class="li"> The following methods are not supported by this release:</div>
<ul>
<li class="level2"><div class="li"> PreparedStatement.setArray (int i, Array x)</div>
</li>
<li class="level2"><div class="li"> PreparedStatement.setRef (int i, Ref x)</div>
</li>
<li class="level2"><div class="li"> PreparedStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-abbr-x"
</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getObject (int i, java.util.Map map)</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getRef (int i)</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getArray (int i)</div>
</li>
<li class="level2"><div class="li"> CallableStatement.getURL ="int-i"
</div>
</li>
<li class="level2"><div class="li"> All method with a named parameter.
</div>
</li>
<li class="level2"><div class="li"> DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)</div>
</li>
<li class="level2"><div class="li"> DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)
</div>
</li>
<li class="level2"><div class="li"> ResultSet.getObject (int i, java.util.Map map)
</div>
</li>
<li class="level2"><div class="li"> ResultSet.getRef (int i)
</div>
</li>
<li class="level2"><div class="li"> ResultSet.getArray (int i)
</div>
</li>
<li class="level2"><div class="li"> ResultSet.getURL ="int-i"
</div>
</li>
<li class="level2"><div class="li"> ResultSet.updateArray (int i, Array x)
</div>
</li>
<li class="level2"><div class="li"> ResultSet.updateRef (int i, Ref x)
</div>
</li>
<li class="level2"><div class="li"> All setXXX methods in Blob and Clob.
</div>
</li>
</ul>
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.

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.

Install the Microsoft Certificate Services. You should not do it on the same
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.
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 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>

## Changes

### 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.

### 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.
<li class="level1"><div class="li"> Method PoolManager.closeConnection(Connection) was added.</div></li>
<li class="level1"><div class="li"> Errors in ResultSet.close() are caught now.</div></li>
<li class="level1"><div class="li"> A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.</div></li>
<li class="level1"><div class="li"> The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.</div></li>
<li class="level1"><div class="li"> Connections with a read timeout are removed from the connection pool.</div></li>

<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>
<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 &quot;Unknown parameter datatype:-12347&quot; 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>
</ul>
The detecting of the default codepage of the SQL Server 2000 was changed.

The error &quot;Connection refused&quot; with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.

The error &quot;Unknown output datatype:2004&quot; with updateBlob(String, Blob) was fixed.

The error &quot;Unknown output datatype:2005&quot; 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.
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.

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 "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.
- "Create View ..." and "Create Procedure ...": 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 excrement 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.


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 now more 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 for support MARS in future versions.
- Support for MARS was added.
- Data larger than 200 MB are now 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 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 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.".

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, tsmltran, 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 following properties will now be respected by TdsDataSource.equals(): [appname, dstsave, fulltran, tsmltran, 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 &gt;039;xyz2005&lt; &gt;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 &gt;039;xyz2005&lt; &gt;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 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.

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 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.
<li class="level1"><div class="li"> Fixed some bugs in setClientInfo(String,String) and optimized performance.</div></li>
<li class="level1"><div class="li"> Removed the finalize() method from the Connection object.</div></li>
<li class="level1"><div class="li"> Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.</div></li>
<li class="level1"><div class="li"> Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.</div></li>
<li class="level1"><div class="li"> Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().</div></li>

<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>

<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 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 ResultSet.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
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.

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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AdventNet SNMPV3 Release 2.2.1

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*/

lib/jetty-ext/jsp-api.jar
ASF

lib/jetty-ext/jasper-runtime.jar
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lib/jetty-ext/jasper-compiler.jar
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lib/hadoop-0.19.1-core.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/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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b) Use a suitable shared library mechanism for linking with the

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Library. A suitable mechanism is one that (1) uses at run time a

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copy of the library already present on the user's computer system,

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rather than copying library functions into the executable, and (2)

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will operate properly with a modified version of the library, if

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the user installs one, as long as the modified version is

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interface-compatible with the version that the work was made with.

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c) Accompany the work with a written offer, valid for at

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least three years, to give the same user the materials

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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.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.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
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 run 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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---------------------------------------------

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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.

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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.
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* Documentation Location
* Third-Party Component Notices
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* Third-Party Component Notices

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2.4 Login Types

2.5 Driver Class Name

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2.7 JDBC URL Syntax of the driver

2.8 JDBC URL Syntax of the Pooled Driver

2.9 Implemented Driver Properties

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Class="inlinetoc"
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4.4 Outer Join

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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.
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="&quot;...&quot; Codebase=&quot;...&quot; ARCHIVE=&quot;Merlia.jar&quot; WIDTH=&quot;100%&quot; HEIGHT=&quot;100%&quot;&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</td>
<td>3.0</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>Connection Pooling</th>
<th>-</th>
<th>-</th>
<th>Yes</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<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>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.

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"></span>&lt;<span class="kw2">hostname</span>&gt; or &lt;<span class="kw2">ip</span>&gt; address

```bash
telnet &lt;hostname&gt; or &lt;ip&gt; address
```
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.
2.5 Driver Class Name

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

For a list of DataSource Properties look in the [API documentation](#).

2.6 JDBC URL Subprotocols

- `<td class="col0">jdbc:inetdae7: ....</td>` support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&sql7=true)
- `<td class="col0">jdbc:inetdae7a: ....</td>` support of the SQL Server 7.0 (or higher) feature with `data types Text, Varchar and ASCII`
Char. Use this protocol if using i-net MERLIA and JDBC 4.0. API compliance is required. See character converting JDBC 4.0 API.

### 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>SQL Server 6.5 compatible mode (passwords are transferred plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname</td>
<td>SQL Server 6.5 compatible mode (passwords are transferred plainly) with default port 1433</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname:portnumber?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>
<tr>
<td>jdbc:inetdae7:&lt;em&gt;servername/pipe/pipename</td>
<td>with named pipes</td>
</tr>
<tr>
<td></td>
<td>named instance</td>
</tr>
</tbody>
</table>

### 2.8 JDBC URL Syntax of the Pooled Driver

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:servername/pipe/MSSQL$instancename/sql/query</td>
<td>named instance</td>
</tr>
</tbody>
</table>
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>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>
</tbody>
</table>

```
<table>
<thead>
<tr>
<th><strong>User</strong></th>
<th>the database user, if empty the current windows user is used</th>
</tr>
</thead>
<tbody>
<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>Property</td>
<td>Default</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td><code>prepare</code></td>
<td>true or false</td>
</tr>
<tr>
<td><code>prepareLiveTime</code></td>
<td>60</td>
</tr>
<tr>
<td><code>lastUpdateCount</code></td>
<td>true or false</td>
</tr>
<tr>
<td><code>loginTimeout</code></td>
<td>override</td>
</tr>
<tr>
<td><code>queryTimeout</code></td>
<td>5 * loginTimeout.</td>
</tr>
<tr>
<td><code>JAVA_OBJECT</code></td>
<td>true or false</td>
</tr>
<tr>
<td><code>appname</code></td>
<td></td>
</tr>
<tr>
<td><code>WSID</code></td>
<td></td>
</tr>
<tr>
<td><code>useCursorsAlways</code></td>
<td>true or false</td>
</tr>
</tbody>
</table>
resultSetType        default is "1003"
(ResultSet.TYPE_FORWARD_ONLY) A list of valid values can find in chapter a href="#scrolling-cursor-types" title="Scrolling Cursor Types" class="wikilink1">Scrolling Cursor Types</a>.

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 <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()
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 <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 &quot;instance&quot;; </td></tr><tr class="row28"><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="row29"><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="row30"><th class="col0 leftalign"> failover </th><td class="col1 leftalign"> see chapter &quot;Failover on getConnection()&quot; </td></tr><tr class="row31"><th class="col0 leftalign"> mars </th><td class="col1 leftalign"> 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 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 &lt;em&gt;jdbc3&lt;/em&gt;, &lt;em&gt;jdbc4&lt;/em&gt; and &lt;em&gt;odbc&lt;/em&gt;. 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.
there are three ways to put the properties to the driver:

- append the properties to the URL like jdbc:inete<abbr title="Uniform Resource Locator">URL</abbr> like jdbc:inetda: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.

2.11 Connection Examples
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.

How to use the PoolManager of the driver.
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™.

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

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

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

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

<h2>3. Named Pipes</h2>

<p>Another solution to connect to the SQL Server are named pipes. Named pipes work only in the Java VM 1.1.7 or
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

Example:

```java
st = con.createStatement();
st.executeUpdate("{call MyProc('value')}");
```

4.2 Stored Procedures

Example:

```java
pr = con.prepareStatement("{call MyProc('value')}"); pr.executeQuery();
```
pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span>(<span class="br0">"{call MyProc( ? )}"</span>); pr.<span class="me1">setString</span>(<span class="st0">"value"</span>); pr.<span class="me1">execute</span>();

<h3 id="functions">4.3 Functions</h3>

<p>Numeric Functions</p>

<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()}<br/>{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)}</pre>
{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">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>

</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"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>
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:

\`\`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'national text' )"

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.

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)
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:

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.

<h2>PreparedStatement Performance and Data Type Mapping</h2>

<h3>Data Type Precedence</h3>

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
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>Function</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td><code>setShort</code></td>
<td>SMALLINT</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>[4000 NVARCHAR&lt;br/&gt;&gt; 4000 NTEXT][48000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT]</td>
<td>..</td>
</tr>
<tr>
<td><code>setAsciiStream</code></td>
<td>[VARBINARY]</td>
<td>..</td>
</tr>
<tr>
<td><code>setClob</code></td>
<td>[4000 NVARCHAR&lt;br/&gt;&gt; 4000 NTEXT][48000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT]</td>
<td>..</td>
</tr>
<tr>
<td><code>setCharacterStream</code></td>
<td>[4000 NVARCHAR&lt;br/&gt;&gt; 4000 NTEXT][48000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT]</td>
<td>..</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>getBytes</code></td>
<td>VARBINARY</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 the driver will be processed up to 20% slower. This happens if the parameter definition sent 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>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>Insensitive keyset cursor</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE+1</td>
<td>Dynamic cursor</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>

10. Failover

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
jdbcTemplate?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 "Application Programming Interface" 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.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:
<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>

example URLs:
jdbc:inetpool:inetora:localhost?database=orcl&amp;useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=100&amp;totalTimeOfAttempts=10

<h3 id="configuration-in-java">10.3.2 Configuration in Java</h3>

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
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 = 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:
  
  ```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:
  
  ```java
  initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
  ```

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

- **setTransactionIsolation**
  
  Since version 6.08.04 you can also set it via API with:
  
  ```java
  conn.setTransactionIsolation(4096);
  ```

<h2 id="debugging">12. Debugging</h2>

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

- **Solutions**
  
  You can enable the logging with the following examples:
  
  ```java
  conn.setLogWriter(new PrintWriter(System.out));
  ```

- **Examples**
  
  You can also enable the logging with:
  
  ```java
  conn.setLogWriter(new PrintWriter(System.out));
  ```
<h2 id="support">13. Support</h2>

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 @):

You can find more documentation at:

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

- Set integer values instead of Strings.
- Use JDBC URL "jdbc:inetda7a" - 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. For example, 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-url-x"
- CallableStatement.getObject (int i, java.util.Map map)
- CallableStatement.getRef (int i)
- CallableStatement.getArray (int i)
- CallableStatement.getURL = "int-i-url"
- All method with a named parameter.
- DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[])
<li class="level2"><div class="li">
DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String
typeNamePattern, String attributeNamePattern)</div>
</li>
<li class="level2"><div class="li">
ResultSet.getObject (int i, java.util.Map map)</div>
</li>
<li class="level2"><div class="li">
ResultSet.getRef (int i)</div>
</li>
<li class="level2"><div class="li">
ResultSet.getArray (int i)</div>
</li>
<li class="level2"><div class="li">
ResultSet.getURL ="int-i"</div>
</li>
<li class="level2"><div class="li">
ResultSet.updateArray (int i, Array x)</div>
</li>
<li class="level2"><div class="li">
ResultSet.updateRef (int i, Ref x)</div>
</li>
<li class="level2"><div class="li">
All setXXX methods in Blob and Clob.</div>
</li>
</ul>

<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 class="level1"><div class="li">a server-wide certificate on the computer with the MS SQL Server 2000.</div>
</li>
</ul>

<blockquote>
<em>Note:</em>: You don&#039;t need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.</blockquote>

<blockquote>
<strong>WARNING</strong>: 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&#039;ll need to add it to every ODBC client.</blockquote>

<ul>
<li class="level1"><div class="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 &lt;a href="http://java.sun.com/products/jsse/" class="urlextern" target="_blank" title="http://java.sun.com/products/jsse/"&gt;download the JSSE&lt;/a&gt; and add it to your classpath.</div>
</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.

### 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.
- 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 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 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".

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

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.
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 (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
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 ...&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 DTCPProxy 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.
- 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.

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.
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) andCachedRowSet.setTime( x, Time, Calendar) was fixed.

A 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.
<li class="level1"><div class="li"> 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>

</div>


<dl class="level3">

<dt><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></dt>

<dt><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></dt>

<dt><div class="li"> The wrong message "Statement.cancel:Statement is currently not running" on running Statements was removed. </div></dt>

<dt><div class="li"> The issue that the driver could hang for some time after a protocol violation in executeQuery() was fixed. </div></dt>

<dt><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 (File Transfer Protocol:FTP), 80 (HTTP) or 1521 (Oracle). </div></dt>

<dt><div class="li"> The garbage output of DatabaseMetaData.getColumns() was fixed. The bug existed since version 6.01. </div></dt>

<dt><div class="li"> Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work. </div></dt>

<dt><div class="li"> The methods setAppname() and getAppname() were added to the DataSources. </div></dt>

<dt><div class="li"> The methods setFulltran() and getFulltran() were added to the DataSources. </div></dt>

<dt><div class="li"> Support for the new protocol of SQLServer 2005 was added. </div></dt>

<dt><div class="li"> Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added. </div></dt>

</dl>
<li class="level1">Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</li>
</li>
<li class="level1">The property lastUpdateCount was added.</li>
</li>
<li class="level1">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.</li>
</li>
<li class="level1">A bug with Statement.cancel() and SSL and forceEncryption was fixed.</li>
</ul>

<ul>
<li class="level1">A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.</li>
</li>
<li class="level1">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>
<li class="level1">Some changes on the time behavior after a call of cancel() or if a query timeout occurs.</li>
</li>
<li class="level1">The timing for resolving the instance name was changed.</li>
</li>
<li class="level1">The property WSID was added.</li>
</li>
<li class="level1">The restoring of the connection after an query timeout is faster now if the MS SQL Server does not need to roll back.</li>
</li>
<li class="level1">Support for the data type BIGINT in the method updateObject(i,x) was added.</li>
</li>
<li class="level1">The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.</li>
</li>
<li class="level1">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.</li>
</li>
<li class="level1">An ArrayIndexOutOfBoundsException with the setXXX() methods of the RowSets was fixed if the parameter was not set in numerical order.</li>
</li>
<li class="level1">An SQLWarning was added to the to XAConnection from XDataSource if a
connection was not closed from the user's side.
</li>
</ul>
</div>

<div class="level3">
<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>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> 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>
<li class="level1"><div class="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.</div></li>
<li class="level1"><div class="li"> CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).</div></li>
<li class="level1"><div class="li"> Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.</div></li>
<li class="level1"><div class="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.</div></li>
<li class="level1"><div class="li"> The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.</div></li>
</ul>
</div>
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.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 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 ‘---’, 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 <abbr title="Uniform Resource Locator">URL</abbr>)

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 &quot;element 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 &quot;ArrayIndexOutOfBoundsException: 2&quot; 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.</div>

<li class="level1"><div class="li"> 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></li>

<li class="level1"><div class="li"> The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.</div></li>

<li class="level1"><div class="li"> A ClassCastException was fixed in method PoolManager.closeAll().</div></li>

<li class="level1"><div class="li"> Only SQL Server 2005: Output parameters could be returned in wrong order or cause an ArrayIndexOutOfBoundsException when using named parameters.</div></li>

<li class="level1"><div class="li"> In the SQL Server 6.5 mode the driver now returns null again for null values and not empty strings.</div></li>

</div>


<ul>
<li class="level1"><div class="li"> A NPE with the IBM VM and SSL was compensate through disable the SSL with this Java VM.</div></li>

<li class="level1"><div class="li"> The method equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.</div></li>

<li class="level1"><div class="li"> The protocol of the transaction API was changed for the SQL Server 2005 for support MARS in future versions.</div></li>

<li class="level1"><div class="li"> Support for MARS was added.</div></li>

<li class="level1"><div class="li"> Data larger as 200 Megabyte are send as bulk. Now you can save data until a size of Integer.MAX_VALUE-24.</div></li>

<li class="level1"><div class="li"> Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.</div></li>

<li class="level1"><div class="li"> With MARS enabled the fetch size hint is ignored.</div></li>

<li class="level1"><div class="li"> Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY, READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.</div></li>

</ul>
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.

Changes in Version 7.01 (27. Jun 2007)

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 &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>
[xyz2005]Could not find server &amp;#039;xyz2005&amp;#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;&lt;br/&gt;

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". Could not find server "xyz2005" 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 (>= 8KBit) was fixed. A connection was
only possible with secureLevel=0.</li>
</ul>


<ul>
<li class="level1"><div class="li"> Connection property resultSetType was not used for PreparedStatement and CallableStatement.</div></li>
<li class="level1"><div class="li"> 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().</div></li>
<li class="level1"><div class="li"> Classes DTCDataSource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.</div></li>
</ul>


<ul>
<li class="level1"><div class="li"> Empty strings in CacheRowSet changed to null values after serialization.</div></li>
<li class="level1"><div class="li"> 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.</div></li>
<li class="level1"><div class="li"> The inactive timeout of the PoolManager is now reset with every method call.</div></li>
<li class="level1"><div class="li"> The property fastbatch was added.</div></li>
<li class="level1"><div class="li"> A possible hanging in socket.skip() after a timeout or cancel was fixed.</div></li>
<li class="level1"><div class="li"> An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.</div></li>
<li class="level1"><div class="li"> Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.</div></li>
<li class="level1"><div class="li"> The error &quot;Unknown parameter datatype:-16 - null&quot; with
 PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.</div>

<li class="level1"><div class="li"> Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.</div>

</li>

</ul>

</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Fixed some bugs in ParameterMetaData.</div>

</li>

<li class="level1"><div class="li"> Fixed a possible unnecessary cancel if an exception occurred on prepare or execute.</div>

</li>

<li class="level1"><div class="li"> A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.</div>

</li>

<li class="level1"><div class="li"> Fixed some bugs in setClientInfo(String,String) and optimized performance.</div>

</li>

<li class="level1"><div class="li"> Removed the finalize() method from the Connection object.</div>

</li>

<li class="level1"><div class="li"> Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.</div>

</li>

<li class="level1"><div class="li"> Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.</div>

</li>

<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>

</ul>

</div>
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 `PreparedStatement` and `updatable ResultSet`.

Improve the speed for `getGeneratedKeys` together with `PreparedStatement`. Now it uses 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)`. 
<li class="level1">Changed the default value of impltran for PDataSource to false.</li>
</ul>
</div>

<ul class="level3">
<li class="level1">A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII 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 ResultSet.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>

17.27. Changes in Version 8.03  (17. Apr 2013)
<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>

<ul class="level3">
<li class="level1">Does not use the package sun.misc.* on Java 6 and newer.</li>
</ul>

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.


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/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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ASF

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/parse-pdf/lib/PDFBox-0.7.4-dev.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/xercesImpl.jar

ASF

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4.52 commons-beanutils-1.7.0.jar 1.7.0
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4.56 commons-configuration 1.6

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### 4.57 commons-digester 1.8

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 */

package org.apache.commons.digester;

import java.util.List;
```
abstract public class AbstractRulesImpl implements Rules {

    // ------------------------------- Fields

    /** Digester using this <code>Rules</code> implementation */
    private Digester digester;
    /** Namespace uri to associate with subsequent <code>Rule</code> s */
    private String namespaceURI;

    // ------------------------------- Properties

    /**
     * Return the Digester instance with which this Rules instance is
     * associated.
     */
    public Digester getDigester() {
        return digester;
    }

    /**
     * Set the Digester instance with which this Rules instance is associated.
     *
     * @param digester The newly associated Digester instance
     */
    public void setDigester(Digester digester) {
        this.digester = digester;
    }

    /**
     * Return the namespace URI that will be applied to all subsequently
     * added <code>Rule</code> objects.
     */
    public String getNamespaceURI() {
        return namespaceURI;
    }
}
/**
 * Set the namespace URI that will be applied to all subsequently
 * added <code>Rule</code> objects.
 *
 * @param namespaceURI Namespace URI that must match on all
 * subsequently added rules, or <code>null</code> for matching
 * regardless of the current namespace URI
 */
public void setNamespaceURI(String namespaceURI) {
    this.namespaceURI = namespaceURI;
}

// --------------------------------------------------------- Public Methods

/**
 * Registers a new Rule instance matching the specified pattern.
 * This implementation sets the <code>Digester</code> and the
 * <code>namespaceURI</code> on the <code>Rule</code> before calling [ @link #registerRule].
 *
 * @param pattern Nesting pattern to be matched for this Rule
 * @param rule Rule instance to be registered
 */
public void add(String pattern, Rule rule) {
    // set up rule
    if (this.digester != null) {
        rule.setDigester(this.digester);
    }
    if (this.namespaceURI != null) {
        rule.setNamespaceURI(this.namespaceURI);
    }
    registerRule(pattern, rule);
}

/**
 * Register rule at given pattern.
 * The the Digester and namespaceURI properties of the given <code>Rule</code>
 * can be assumed to have been set properly before this method is called.
 *
 * @param pattern Nesting pattern to be matched for this Rule
 * @param rule Rule instance to be registered
 */
abstract protected void registerRule(String pattern, Rule rule);
/**
 * Clear all existing Rule instance registrations.
 */
abstract public void clear();

/**
 * Return a List of all registered Rule instances that match the specified
 * nesting pattern, or a zero-length List if there are no matches. If more
 * than one Rule instance matches, they <strong>must</strong> be returned
 * in the order originally registered through the <code>add()</code>
 * method.
 *
 * @param pattern Nesting pattern to be matched
 *
 * @deprecated Call match(namespaceURI,pattern) instead.
 */
public List match(String pattern) {
    return match(namespaceURI, pattern);
}

/**
 * Return a List of all registered Rule instances that match the specified
 * nesting pattern, or a zero-length List if there are no matches. If more
 * than one Rule instance matches, they <strong>must</strong> be returned
 * in the order originally registered through the <code>add()</code>
 * method.
 *
 * @param namespaceURI Namespace URI for which to select matching rules,
 * or <code>null</code> to match regardless of namespace URI
 * @param pattern Nesting pattern to be matched
 */
abstract public List match(String namespaceURI, String pattern);

/**
 * Return a List of all registered Rule instances, or a zero-length List
 * if there are no registered Rule instances. If more than one Rule
 * instance has been registered, they <strong>must</strong> be returned
 * in the order originally registered through the <code>add()</code>
 * method.
 */
abstract public List rules();
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*/

package org.apache.commons.digester;

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

/**
 * Simple regex pattern matching algorithm.
 *
 * This uses just two wildcards:
 * <ul>
 * <li><code>*</code> matches any sequence of none, one or more characters
 * <li><code>?</code> matches any one character
 * </ul>
 *
 * Escaping these wildcards is not supported.

 * @since 1.5
 */

public class SimpleRegexMatcher extends RegexMatcher {

    // ------------------------------- Fields

    /** Default log (class wide) */
    private static final Log baseLog = LogFactory.getLog(SimpleRegexMatcher.class);

    /** Custom log (can be set per object) */
    private Log log = baseLog;

    // ------------------------------- Properties

    /**
     * Gets the <code>Log</code> implementation.
public Log getLog() {
    return log;
}

/**
 * Sets the current &lt;code&gt;Log&lt;/code&gt; implementation used by this class.
 */
public void setLog(Log log) {
    this.log = log;
}

// ------------------------------- Public Methods

/**
 * Matches using simple regex algorithm.
 *
 * @param basePattern the standard digester path representing the element
 * @param regexPattern the regex pattern the path will be tested against
 * @return true if the given pattern matches the given path
 */
public boolean match(String basePattern, String regexPattern) {
    // check for nulls
    if (basePattern == null || regexPattern == null) {
        return false;
    }
    return match(basePattern, regexPattern, 0, 0);
}

// ------------------------------- Implementations Methods

/**
 * Implementation of regex matching algorithm.
 * This calls itself recursively.
 */
private boolean match(String basePattern, String regexPattern, int baseAt, int regexAt) {
    if (log.isTraceEnabled()) {
        log.trace("Base: " + basePattern);
        log.trace("Regex: " + regexPattern);
        log.trace("Base@" + baseAt);
        log.trace("Regex@" + regexAt);
    }

    // check bounds
    if (regexAt >= regexPattern.length()) {
        // maybe we've got a match
        if (baseAt >= basePattern.length()) {
            // ...
        }
        // ...
    }
// ok!
return true;
}
// run out early
return false;

} else {
if (baseAt >= basePattern.length()) {
    // run out early
return false;
}

// ok both within bounds
char regexCurrent = regexPattern.charAt(regexAt);
switch (regexCurrent) {
    case '*':
        // this is the tricky case
        // check for terminal
if (++regexAt >= regexPattern.length()) {
    // this matches anything let - so return true
return true;
}
        // go through every subsequent apperance of the next character
        // and so if the rest of the regex matches
char nextRegex = regexPattern.charAt(regexAt);
if (log.isTraceEnabled()) {
    log.trace("Searching for next '" + nextRegex + "' char");
}
int nextMatch = basePattern.indexOf(nextRegex, baseAt);
while (nextMatch != -1) {
    if (log.isTraceEnabled()) {
        log.trace("Trying '*' match@" + nextMatch);
    }
    if (match(basePattern, regexPattern, nextMatch, regexAt)) {
        return true;
    }
    nextMatch = basePattern.indexOf(nextRegex, nextMatch + 1);
}
log.trace("No matches found.");
return false;
    case '?':
        // this matches anything
return match(basePattern, regexPattern, ++baseAt, ++regexAt);
    default:
if (log.isTraceEnabled()) {

log.trace("Comparing " + regexCurrent + " to " + basePattern.charAt(baseAt));
}
if (regexCurrent == basePattern.charAt(baseAt)) {
    // still got more to go
    return match(basePattern, regexPattern, ++baseAt, ++regexAt);
}
return false;
}

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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:
http://www.w3.org/TR/SVG11/java.html

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4.82 geronimo-jta-1.1-spec 1.1.1 :3ubuntu1

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API specification for Smack, an Open Source XMPP client library.

The `XMPPConnection` class is the main entry point for the API.

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API specification for Smack, an Open Source XMPP client library.
The org.jivesoftware.smack.XMPPConnection class is the main entry point for the API.

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API specification for Smack, 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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API specification for Smack, an Open Source XMPP client library.
<p>The `org.jivesoftware.smack.XMPPConnection` class is the main entry point for the API.</p>

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JUnit test library (junit-3.8.1.jar)

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4.100 hawtdispatch-transport 1.11
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4.101 hazelcast-all 3.6.5

4.102 hibernate-c3p0 3.5.2-Final
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4.104 hibernate-core 4.2.0.Final

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Version 2.1, February 1999

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 */
package org.hibernate;

import org.jboss.logging.Logger;
import org.hibernate.internal.CoreMessageLogger;

/**
 * Indicates failure of an assertion: a possible bug in Hibernate.
 *
 * @author Gavin King
 */

public class AssertionFailure extends RuntimeException {

    private static final long serialVersionUID = 1L;
    private static final CoreMessageLogger LOG = Logger.getMessageLogger(CoreMessageLogger.class,
            AssertionFailure.class.getName());

    public AssertionFailure( String s ) {
        super(s);
        LOG.failed(this);
    }

    public AssertionFailure( String s,
            Throwable t ) {
        super(s, t);
        LOG.failed(t);
    }
}

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4.106 hibernate-jpa-2.0-api 1.0.1.Final

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4.107 hibernate-validator 5.2.2.Final

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<thirdparty-licenses>
  <module name='ant'
    licenseType='apache-2.0'
    version='1.8.2'
    projectHome='http://ant.apache.org/'
    description='ANT (compile time)'>
    <jar name='ant.jar' />
  </module>
  <module name='ant-launcher'
    licenseType='apache-2.0'
    version='1.8.2'
    projectHome='http://ant.apache.org/'
    description='ANT launcher (compile time)'>
    <jar name='ant-launcher.jar' />
  </module>
  <module name='ant-junit'
    licenseType='apache-2.0'
    version='1.8.2'
    projectHome='http://ant.apache.org/'
    description='ANT junit support (compile time)'>
    <jar name='ant-junit.jar' />
  </module>
  <module name='BND'
    licenseType='apache-2.0'
    version='1.44.0'
    projectHome='http://www.aqute.biz/Bnd/Bnd'
    description='Used to generate an OSGI compliant conf/MANIFEST.MF'>
    <jar name='bnd.jar' />
  </module>
  <module name='Bouncy castle'
    licenseType='bouncycastle'
<module name='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='2.1.0'
        projectHome='http://www.jboss.org/byteman'
        description='Annotations of JCIP'>
        <jar name='byteman.jar'/>
</module>

<module name='byteman-bmunit' licenseType='LGPL 2.1'
        version='2.1.0'
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        description='None (part of src tree: org.jgroups.annotations)'>
        <jar name='byteman-bmunit.jar'/>
</module>

<module name='byteman-install' licenseType='LGPL 2.1'
        version='2.1.0'
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        description='None (part of src tree: org.jgroups.annotations)'>
        <jar name='byteman-install.jar'/>
</module>

<module name='byteman-submit' licenseType='LGPL 2.1'
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        projectHome='http://www.jboss.org/byteman'
        description='None (part of src tree: org.jgroups.annotations)'>
        <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'
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        projectHome='http://logging.apache.org/
        description='Java logging framework (runtime)'>
<jar name='log4j.jar' />
</module>

<module name='serializer'
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  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'>
  <jar name='testng-6.8.jar' />
</module>

<module name='xalan'
  licenseType='apache-2.0'
  version='2.4.D1'
  projectHome='http://xml.apache.org/xalan-j/
  description='Xalan-Java is an XSLT processor for transforming XML documents. Used to generate HTML test reports from XML (testing time)'>
  <jar name='xalan.jar' />
</module>
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### 4.117 htmlunit-core-js 2.11  

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```xml  
<?xml version="1.0" encoding="iso-8859-1"?>  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
<style type='text/css'>  
body { background: white; color: black; }  
</style>  
</head>  
<body>  
<h1>W3C IPR SOFTWARE NOTICE</h1>  
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The specification of DOM Level 3’s various parts is at:
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The specification of DOM Level 2's various parts is at:
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversals-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/
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package com.lowagie.text;

import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Iterator;

/**
 * An <CODE>Anchor</CODE> can be a reference or a destination of a reference.
 * <P>
 * An <CODE>Anchor</CODE> is a special kind of <CODE>Phrase</CODE>. It is
 * constructed in the same way.
 * <P>
 * Example:
 * <BLOCKQUOTE><PRE>
 * <STRONG>Anchor anchor = new Anchor("this is a link");</STRONG>
 * <STRONG>anchor.setName("LINK");</STRONG>
 * <STRONG>anchor.setReference("http://www.lowagie.com");</STRONG>
 * </PRE></BLOCKQUOTE>
 * @see Element
 * @see Phrase
 */

public class Anchor extends Phrase {

// constant
private static final long serialVersionUID = -852278536049236911L;

// membervariables

/** This is the name of the <CODE>Anchor</CODE>. */
protected String name = null;

/** This is the reference of the <CODE>Anchor</CODE>. */
protected String reference = null;

// constructors
/**
* Constructs an `<CODE>Anchor</CODE>` without specifying a leading.
* /
public Anchor() {
    super(16);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain leading.
* *
* @param leading the leading
* /
public Anchor(float leading) {
    super(leading);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain `<CODE>Chunk</CODE>`.
* *
* @param chunk a `<CODE>Chunk</CODE>`
* /
public Anchor(Chunk chunk) {
    super(chunk);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain `<CODE>String</CODE>`.
* *
* @param string a `<CODE>String</CODE>`
* /
public Anchor(String string) {
    super(string);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain `<CODE>String</CODE>`
* and a certain `<CODE>Font</CODE>`.
* *
* @param string a `<CODE>String</CODE>`
* @param font a `<CODE>Font</CODE>`
* /
public Anchor(String string, Font font) {
    super(string, font);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain `<CODE>Chunk</CODE>`
* and a certain leading.

* 
* @paramleading the leading
* @paramchunka `<CODE>Chunk</CODE>`
*/

class public Anchor(float leading, Chunk chunk) {
   super(leading, chunk);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain leading
* and a certain `<CODE>String</CODE>`.
*
* @paramleading the leading
* @paramstringa `<CODE>String</CODE>`
*/

class public Anchor(float leading, String string) {
   super(leading, string);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain leading,
* a certain `<CODE>String</CODE>` and a certain `<CODE>Font</CODE>`.
*
* @paramleading the leading
* @paramstringa `<CODE>String</CODE>`
* @paramfonta `<CODE>Font</CODE>`
*/

class public Anchor(float leading, String string, Font font) {
   super(leading, string, font);
}

/**
* Constructs an `<CODE>Anchor</CODE>` with a certain `<CODE>Phrase</CODE>`.
*
* @paramphrasea `<CODE>Phrase</CODE>`
*/

class public Anchor(Phrase phrase) {
   super(phrase);
   if (phrase instanceof Anchor) {
      Anchor a = (Anchor) phrase;
      setName(a.name);
      setReference(a.reference);
   }
}

// implementation of the Element-methods
/**
 * Processes the element by adding it (or the different parts) to an
 * <CODE>ElementListener</CODE>.
 * *
 * @param listener an <CODE>ElementListener</CODE>
 * @return <CODE>true</CODE> if the element was processed successfully
 */
public boolean process(ElementListener listener) {
    try {
        Chunk chunk;
        Iterator i = getChunks().iterator();
        boolean localDestination = (reference != null && reference.startsWith("#"));
        boolean notGotoOK = true;
        while (i.hasNext()) {
            chunk = (Chunk) i.next();
            if (name != null && notGotoOK && !chunk.isEmpty()) {
                chunk.setLocalDestination(name);
                notGotoOK = false;
            }
            if (localDestination) {
                chunk.setLocalGoto(reference.substring(1));
            }
            listener.add(chunk);
        }
        return true;
    }
    catch(DocumentException de) {
        return false;
    }
}

/**
 * Gets all the chunks in this element.
 * *
 * @return an <CODE>ArrayList</CODE>
 */
public ArrayList getChunks() {
    ArrayList tmp = new ArrayList();
    Chunk chunk;
    Iterator i = iterator();
    boolean localDestination = (reference != null && reference.startsWith("#"));
    boolean notGotoOK = true;
    while (i.hasNext()) {
        chunk = (Chunk) i.next();
        if (name != null && notGotoOK && !chunk.isEmpty()) {
            chunk.setLocalDestination(name);
            notGotoOK = false;
        }
        if (localDestination) {
            chunk.setLocalGoto(reference.substring(1));
        }
        tmp.add(chunk);
    }
    return tmp;
}
if (localDestination) {
    chunk.setLocalGoto(reference.substring(1));
} else if (reference != null)
    chunk.setAnchor(reference);
    tmp.add(chunk);
    return tmp;
}

/**
 * Gets the type of the text element.
 * @return a type
 */
public int type() {
    return Element.ANCHOR;
}

// methods

/**
 * Sets the name of this <CODE>Anchor</CODE>.
 * @param name a new name
 */
public void setName(String name) {
    this.name = name;
}

/**
 * Sets the reference of this <CODE>Anchor</CODE>.
 * @param reference a new reference
 */
public void setReference(String reference) {
    this.reference = reference;
}

// methods to retrieve information

/**
 * Returns the name of this <CODE>Anchor</CODE>.
 * @return name
 */
public String getName() {
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4.130 jackson-databind 2.8.7

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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4.131 jackson-dataformat-cbor 2.8.7

4.132 jackson-jaxrs 1.9.13

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4.133 jackson-mapper-asl 1.9.13

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1.1

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interface-compatible with the version that the work was made with.
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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.

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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>
      <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
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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.

2.1. Current Groups
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* 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.
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* 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
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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:

```bash
$ mvn test
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Alternatively, you can execute the tests AND generate a report with:

```bash
$ mvn surefire-report:report
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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, like so:

```bash
$ 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:

```bash
$ 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.

```bash
$ 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.

```bash
$ 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.

```bash
$ 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:

```bash
$ 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
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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
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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>
```
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.

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

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

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

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

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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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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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* Third-Party Component Notices

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* Documentation Location
* Third-Party Component Notices

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Section 6 states terms for distribution of such executables.
252

When a "work that uses the Library" uses material from a header file

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that is part of the Library, the object code for the work may be a

254
derivative work of the Library even though the source code is not.

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Whether this is true is especially significant if the work can be

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linked without the Library, or if the work is itself a library. The

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threshold for this to be true is not precisely defined by law.

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259

If such an object file uses only numerical parameters, data

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structure layouts and accessors, and small macros and small inline

261

functions (ten lines or less in length), then the use of the object

262

file is unrestricted, regardless of whether it is legally a derivative

263

work. (Executables containing this object code plus portions of the

264
Library will still fall under Section 6.)

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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

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17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)


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

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.:

```
<APPLET CODE=... Codebase=... ARCHIVE=Merlia.jar WIDTH=100% HEIGHT=100%>
...
</APPLET>
```

or extract the jar in the directory of the applet.

2. Getting Started

2.1 SQL Server, Java and JDBC Versions
<div class="level3">
	<table class="inline">
		<tr class="row0">
			<td class="col0">Product</td>
			<td class="col1">minimum required JDK version</td>
			<td class="col2">JDBC Version</td>
		</tr>
		<tr class="row1">
			<td class="col0">UNA</td>
			<td class="col1">1.1</td>
			<td class="col2">1.22</td>
		</tr>
		<tr class="row2">
			<td class="col0">SPRINTA</td>
			<td class="col1">1.2</td>
			<td class="col2">2.0</td>
		</tr>
		<tr class="row3">
			<td class="col0">OPTA</td>
			<td class="col1">1.2</td>
			<td class="col2">2.0 + Optional Package</td>
		</tr>
		<tr class="row4">
			<td class="col0">MERLIA<br /></td>
			<td class="col1">1.4<br /></td>
			<td class="col2">3.0<br />4.0 (with Java 6.0)</td>
		</tr>
	</table>
</div>

All drivers support the following SQL Server versions:
<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>

with all Service Packs (32 bit / 64 bit)
### 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></td>
<td>1.22</td>
<td>2.0</td>
<td>2.0+</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>
</tbody>
</table>
Savepoints on Transactions: Yes

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.
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 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:
<ul>
<li> Select the SQL Server in the Enterprise Manager</li>
<li> Open the properties dialog</li>
<li> Select the security tab</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>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. 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>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 ...&amp;sql7=true)</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 API 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

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:hostname:portnumber</td>
<td>jdbc:inetdae7:hostname:portnumber with default port 1433</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname</td>
<td>jdbc:inetdae7:hostname with default port 1433</td>
</tr>
</tbody>
</table>
with properties

with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434

with named instance of

with named pipes |

Examples:

Examples:
### 2.9 Implemented Driver Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>database</code></td>
<td>Default is the user default database</td>
</tr>
<tr>
<td><code>language</code></td>
<td>Default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td><code>user</code></td>
<td>The database user, if empty the current windows user is used</td>
</tr>
<tr>
<td><code>password</code></td>
<td>Password of the database user</td>
</tr>
<tr>
<td><code>charset</code></td>
<td>See Character Converting</td>
</tr>
<tr>
<td><code>initSQL</code></td>
<td>This expression is executed once per connection.</td>
</tr>
<tr>
<td><code>nowarnings</code></td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td><code>logging</code></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.

</td>
</tr>
<tr class="row8">
<th class="col0 leftalign"> sql7                 </th><td class="col1 leftalign"> default is "false" with &quot;inetdae&quot;<br/>
&quot;true&quot; the new datatypes are supported<br/>
this property works only with the classic subprotocol &quot;inetdae&quot;;</td>
</tr>
<tr class="row9">
<th class="col0 leftalign"> secureLevel          </th><td class="col1 leftalign"> default is 1; set the level of <a href="#the-driver-option-securelevel" title=" security with SSL" class="wikilink1"> security with SSL</a> security with SSL</td>
</tr>
<tr class="row10">
<th class="col0 leftalign"> prepare              </th><td class="col1 leftalign"> default is "true";<br/>
PreparedStatements are prepared on the SQL Server,<br/>
&amp;quot;false&quot; the driver sends for every call of execute() all data</td>
</tr>
<tr class="row11">
<th class="col0 leftalign"> prepareLiveTime      </th><td class="col1 leftalign"> default is 60<br/>
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 class="row12">
<th class="col0 leftalign"> lastUpdateCount      </th><td class="col1 leftalign"> default is "false"<br/>
If the value is "true" 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.</td>
</tr>
<tr class="row13">
<th class="col0 leftalign"> loginTimeout         </th><td class="col1 leftalign"> override the value from DriverManager.getLoginTimeout()</td>
</tr>
<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>
| 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()`.

| 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.

| fulltran | default is "true". creates always a transaction with `setAutoCommit(false)`.

If the value is true then the method `setTransactionIsolation()` will call `setAutoCommit(false)` implicitly and start a transaction.

| fulltran | default is "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.

<table>
<thead>
<tr>
<th>var</th>
<th>description</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:&lt;br&gt;  * safe (default) - an additional round trip to the database is executed.&lt;br&gt;  * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()&lt;br&gt;fastbatch&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.&lt;br&gt;fetchsize&lt;br&gt;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>
</tbody>
</table>

failover<br>see chapter &quot;Failover on getConnection()&quot;
<table>
<thead>
<tr>
<th><strong>Property</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>mars</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>packetSize</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>mode</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>typeMapping</td>
<td>default is <code>jdbc4</code>&lt;br&gt;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 <code>jdbc4</code> is the default value. Before it was <code>odbc</code>. The difference between the options are the new data type of JDBC4 like <code>NCHAR</code> and <code>NVARCHAR</code>.</td>
</tr>
<tr>
<td>sqlxml</td>
<td>default is false, if true then <code>getObject(x)</code> returns an instance of SQLXML if the data type is XML.</td>
</tr>
</tbody>
</table>

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&language=deutsch`<br>
2. Call method `getConnection(String url, Properties info)` from the driver manager.<br>
3. Create a `DataSource` and set the properties with the `set` methods.<br>

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=quot;passwordquot; SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```
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 />
</p>
</div>

<h3 id="connection-examples">2.11 Connection Examples</h3>
<div class="level3">
<p>
Eight examples are included in the download file.
</p>
</div>

<h4 id="classicdriverjava">ClassicDriver.java</h4>
<div class="level4">
<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>
</div>

<h4 id="pooleddriverjava">PooledDriver.java</h4>
<div class="level4">
<p>
This example shows the use of the PoolDriver. A driver with internal connection pooling.
</p>
</div>

<h4 id="withdatasourcejava">WithDataSource.java</h4>
<div class="level4"
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 ConnectionPoolDataSourece with a JNDI directory and the PoolManager (i-net
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:

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

Examples:

```java
st = con.createStatement();
st.execute("{call MyProc('value')}");

pr = con.prepareStatement("{call MyProc('value')}");
pr.executeUpdate();

pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.executeUpdate();
```

4.3 Functions

### Numeric Functions

```plaintext
{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)}
```
Open Source Used In Unified Contact Center Enterprise 12.0

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 TIMESTAMPPADD(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`
4.5 Encrypt

```
{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: &quot;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;
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(nvarchar) VALUES( N'national text' )&quot;
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.

-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 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.

---

<h2 id="preparedstatement-performance-and-data-type-mapping">7. PreparedStatement Performance and Data Type Mapping</h2>

<h3 id="data-type-precedence">7.1. Data Type Precedence</h3>

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:
<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>&amp;8656; 4000 NVARCHAR &gt; 4000 NTEXT</td>
<td>&amp;8656; 8000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td>&amp;8656; 8000 VARCHAR &gt; 8000 TEXT</td>
<td>..</td>
</tr>
<tr>
<td>setClob</td>
<td>&amp;8656; 4000 NVARCHAR &gt; 4000 NTEXT</td>
<td>&amp;8656; 8000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td>setClob</td>
<td>&amp;8656; 4000 NVARCHAR &gt; 4000 NTEXT</td>
<td>&amp;8656; 8000 VARCHAR &gt; 8000 TEXT</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:

```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

```sql
&quote;decimal(38,36)&quot;
```

the column type is

```sql
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. &quot;

```sql
select * from testnumeric where a = CAST(?) AS numeric(7.0))&quot;
```

### 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

```sql
&quote;decimal(38,36)&quot;
```

the column type is

```sql
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. &quot;

```sql
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>Fast-Forward A forward only cursor with activated optimiation.</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>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>
</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.
- **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 nontext, nonimage values.
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 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.


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`
10.3.2 Configuration in Java

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:

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

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

```
//add a FailoverListener
FailoverListener fl = new samples.MonitoredFailover.
```
class="sy0">;\n\n\n</div>

<h2 id="snapshot-transaction-isolation">11. Snapshot Transaction Isolation</h2>

<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>

<ol class="level1">
<li class="level1"><div class="li"><strong>Modify the database</strong><br/>You can modify the database with the following SQL statement<br/>ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON<br/></div></li>
<li class="level1"><div class="li"><strong>initSQL</strong><br/>If you do not change the level at using of connection then you can set it at creation of the connection with:<br/>initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT<br/></div></li>
<li class="level1"><div class="li"><strong>Executing a statement</strong><br/>You can also change it with the following Java line:<br/>conn.createStatement().execute(&quot;SET TRANSACTION ISOLATION LEVEL SNAPSHOT&quot;);<br/></div></li>
</ol>
Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr>
with:<br/>
conn.setTransactionIsolation(4096);<br/>
</div>
</div>

<h2 id="debugging">12. Debugging</h2>

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</td>
<td>WebLogic: Enable the JDBC logging in the server console on the node</td>
<td></td>
</tr>
<tr>
<td></td>
<td>servers/myserver/logging/JDBC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JBoss: You can set it for every DataSource in the config file</td>
<td></td>
</tr>
<tr>
<td></td>
<td>....</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;attribute name=&quot;LoggingEnabled&quot;&gt;true&lt;/attribute&gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>....</td>
<td></td>
</tr>
<tr>
<td></td>
<td>myDataSource.setPrintWriter(PrintWriter)</td>
<td>enable the logging only for connections from this DataSource</td>
</tr>
<tr>
<td></td>
<td>myDataSource.setPrintWriter( new PrintWriter( System.out ) )</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JDBC URL option &quot;logging=true&quot;</td>
<td></td>
</tr>
</tbody>
</table>
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>
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 &quot;jdbc:inetdae7a&quot; - take care about no unicode support
    - set JDBC URL parameter &quot;tds9=false&quot; - 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 &quot;for browse&quot; 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 &quot;char(10) output&quot; and the output value is &quot;abc       &quot; you receive the value &quot;abc&quot;).

- 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)
<div>

<h2>16. Using SSL connections</h2>

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

1. Run the Internet Services Manager that is located in the Administrative Tools folder.
2. Right-click on the Default Web Site node for the server and select "Properties" from the context menu.
3. Click on the "Directory Security" tab.
5. 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 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'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.

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 (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>
</tbody>
</table>
<tr class="row3">
<td class="col0">2</td><td class="col1">Always uses SSL. This will throw an exception if the MS SQL Server 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>


- 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(), getDateFunctions() and getNumericFunctions() were refactored.
The error &quot;Unknown output datatype:2004&quot; with updateBlob(String,Blob) was fixed.

The error &quot;Unknown output datatype:2005&quot; 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.

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.

A ClassCastException 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"; 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.
<li class="level1"><div class="li"> Protocol" &gt; FTP</div></li><li class="level1"><div class="li"> 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 reading 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 writing 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 "100029" was changed to "07001". 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><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></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 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.

"Create View ..." and "Create Procedure ..." 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 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.executeQuery() and Driver subprotocol inetdae7 and inetdae7a.
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 multiprocessing 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 &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 "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 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 support MARS in future versions.

Support for MARS was added.

Data larger than 200 MB are sent 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 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 defaultSerializable.

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 &##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 following 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 "\"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.

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 inetda7a 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
<li><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><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><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><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><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><div class="li">A memory leak in the DTCProxy was fixed.</div></li>
<li><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><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><div class="li">Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div></li>
<li><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>

<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>

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>
<div class="level3">
<ul>
</ul>
</div>
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.

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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AdventNet SNMPV3 Release 2.2.1

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Anders Moeller
amoeller@brics.dk

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

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dsrc/plugin/clustering-carrot2/lib/Jama-1.0.2.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/JempBox-0.2.0.jar

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src/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

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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</module>

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4.172 jboss-common/thirdparty/sleepycat/

5.0.0

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PURPOSE: Used for Sleepcat-based CacheLoader
(org.jboss.cache.loaderbdb.BdbCacheLoader) in JBossCache

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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.

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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...
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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

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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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, 1 April 1990
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freemarker/ext/jsp/web-app_2_2.dtd
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
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>

...

</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 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/SyncReplITxTest 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 permutatin 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:

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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.

* mvn clean: Cleans out any old builds and binaries

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

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

* maven 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.pdf.PDFGenerator.putImage(PDFGenerator.java:1725)
at org.apache.fop.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
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* 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)

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

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Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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be optional: if the application does not supply it, the square
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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.

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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.

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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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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* Documentation Location

* Third-Party Component Notices

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

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* Third-Party Component Notices

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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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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
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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
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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that the user who changes the contents of definitions files in 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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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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, 1 April 1990
Ty Coon, President of Vice

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Sentry Spelling Checker Engine</h2>
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<P ALIGN=LEFT>
<HR ALIGN=LEFT WIDTH="100%" SIZE="2">
</P>

</DIV>

<P>

<HR ALIGN=LEFT WIDTH="100%" SIZE="2">
</P>
Open Source Used In Unified Contact Center Enterprise 12.0
Open Source Used In Unified Contact Center Enterprise 12.0
<h1 id="manual-for-the-ms-sql-server-jdbc-type-4-drivers-una-sprinta-opta-and-merlia">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>

<ol>
  <li id="installation" class="level1"><a href="#installation" class="inlinetoc">Installation</a></li>
  <ul>
    <li id="using-the-driver-in-a-java-application" class="level2"><a href="#using-the-driver-in-a-java-application" class="inlinetoc">Using the Driver in a Java Application</a></li>
    <li id="using-the-driver-in-an-applet" class="level2"><a href="#using-the-driver-in-an-applet" class="inlinetoc">Using the Driver in an Applet</a></li>
  </ul>
  <li id="getting-started" class="level1"><a href="#getting-started" class="inlinetoc">Getting Started</a></li>
  <ul>
    <li id="sql-server-java-and-jdbc-versions" class="level2"><a href="#sql-server-java-and-jdbc-versions" class="inlinetoc">SQL Server, Java and JDBC Versions</a></li>
  </ul>
</ol>
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2.3 Check Host Name and Port Number of Your Server

2.4 Login Types

2.5 Driver Class Name

2.6 JDBC URL Subprotocols

2.7 JDBC URL Syntax of the driver

2.8 JDBC URL Syntax of the Pooled Driver

2.9 Implemented Driver Properties

2.10 Connections to the MSDE 2000 Release A

2.11 Connection Examples

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- PooledDriver.java
- WithDataSource.java
- WithPoolDataSource.java
- WithPoolManager.java
- WithJDBCRowSet.java
- WithJNDI.java
- WithJndiAndPoolManager.java
- Package sample.xa

Package
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4. Escape Clauses
4.1 Date and Time
4.2 Stored Procedures
4.3 Functions
4.4 Outer Join
4.5 Encrypt
5. Character Converting
5.1 JDBC 4.0 API
6. New Datatypes
6.1 New Datatypes with SQL Server 7.0 and 2000
6.2 New Data types with SQL Server 2005
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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
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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)

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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) (9 Dec 2002)


17.7. Changes in Version 6.01 (1 Apr 2004)


17.11. Changes in Version 6.05 (13 Sep 2005)


17.15. Changes in Version 7.00 (14 Mar 2007)


17.17. Changes in Version 7.02 (13 Sep 2007)


17.20. Changes in Version 7.05 (25 Mar 2009)


17.27. Changes in Version 8.03 (17. Apr 2013)


17.29. Changes in Version 8.05 (9. Apr 2014)


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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.:
or extract the jar in the directory of the applet.

All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
with all Service Packs (32 bit / 64 bit)

<h3 id="implemented-features">2.2 Implemented Features</h3>

<table>
<thead>
<tr>
<th></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>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>Yes</td>
<td>Yes</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

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 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 "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: <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><code>com.inet.tds.TdsDataSource</code></td>
<td>This is a simple DataSource. Also named JDBC 1 DataSource.</td>
</tr>
<tr>
<td><code>com.inet.tds.PDataSource</code></td>
<td>This is a pooled DataSource.</td>
</tr>
<tr>
<td><code>com.inet.tds.DTCDataSource</code></td>
<td>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.</td>
</tr>
</tbody>
</table>

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><code>jdbc:inetdae7:</code></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><code>jdbc:inetdae7a:</code></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. See character converting JDBC 4.0 API.</td>
</tr>
<tr>
<td><code>jdbc:inetdae6:</code></td>
<td>SQL Server 6.5 compatible mode (passwords are transferred plainly)</td>
</tr>
<tr>
<td><code>jdbc:inetdae:</code></td>
<td>only for compatibility with older versions</td>
</tr>
</tbody>
</table>
2.7 JDBC URL Syntax of the driver

<table>
<thead>
<tr>
<th>jdbc:inetdae7:hostname:portnumber</th>
<th>pooled driver (only OPTA and MERLIA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:hostname</td>
<td>with default port 1433</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname:portnumber</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>
<tr>
<td>jdbc:inetdae7:&lt;em&gt;servername/pipe/pipename&lt;/em&gt;</td>
<td>with named pipes named instance</td>
</tr>
</tbody>
</table>

2.8 JDBC URL Syntax of the Pooled Driver

The pooled driver is only part of OPTA and MERLIA.
Examples:

<ul>
<li class="level1">jdbc:inetpool:inetdae7:www.inetsoftware.de:1433</li>
<li class="level1">jdbc:inetpool:inetdae7:localHost:1433</li>
<li class="level1">jdbc:inetdae7:210.1.164.19:1433</li>
<li class="level1">jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433</li>
<li class="level1">jdbc:inetpool:inetdae7://MyServer/pipe/sql/query</li>
<li class="level1">jdbc:inetpool:jdbc:inetdae7:www.inetsoftware.de:1433</li>
<li class="level1">jdbc:inetpool:jdbc:inetdae7:localHost:1433</li>
</ul>

<h3 id="implemented-driver-properties">2.9 Implemented Driver Properties</h3>

<dl>
  <dt>database</dt>
  <dd>default is the user default database</dd>
  <dt>language</dt>
  <dd>default is "&quot;&quot; → SQL Server default language</dd>
  <dt>user</dt>
  <dd>the database user, if empty the current windows user is used</dd>
  <dt>password</dt>
  <dd>password of the database user</dd>
</dl>
<table>
<thead>
<tr>
<th>charset</th>
<th>see Character Converting</th>
</tr>
</thead>
<tbody>
<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;&quot;false&quot;</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;, PreparedStatements are prepared on the SQL Server. &quot;false&quot; the driver sends for every call of execute() all data</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>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.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>If the value is true, 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.</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 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().</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 false; true; the method executeQuery always uses server cursors.</td>
</tr>
<tr>
<td>resultSetType</td>
<td>default is 1003 (ResultSet.TYPE_FORWARD_ONLY). A list of valid values can find in chapter <a href="#scrolling-cursor-types">Scrolling Cursor Types</a></td>
</tr>
<tr>
<td>useInsteadOfTrigger</td>
<td>default is</td>
</tr>
</tbody>
</table>

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"row21">
<th class="col0 leftalign"> impltran             </th><td class="col1 leftalign"> with Driver the default is &quot;true&quot; for compatibility with the JDBC-ODBC bridge.<br/>
with DataSource the default is &quot;false&quot; to reduce deadlock problems<br/>
If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction.<br/>
</td>
</tr>
<tr class="row22">
<th class="col0 leftalign"> fulltran             </th><td class="col1 leftalign"> default is &quot;true&quot;, creates always a transaction with setAutoCommit( false );<br/>
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 class="row23">
<th class="col0 leftalign"> dstsave              </th><td class="col1 leftalign"> default is true<br/>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.<br/>
</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()<br/>
</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.<br/>
</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 <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 &quot;instance&quot;;
</td>
</tr>
<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"> override the value in the JDBC URL</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 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<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>
</table></div>

There are three ways to put the properties to the driver:
<p>
</p>
call method getConnection(String url, Properties info) from the driver manager.

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:

```
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®; i-net PLEXA® is an example of a pool manager. i-net PLEXA® comes with i-net OPTA®.
How to use the JDBCRowSet from i-net software (i-net OPTA™).

<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 PLEXA™).
</p>

<h4 id="package-samplexa">Package sample.xa</h4>
<p>A sample with EJB and a XADataSource.</p>

<h2 id="named-pipes">3. Named Pipes</h2>
<p>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>
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(&#039;Param1'[,&#039;Param2'[,?][...])}
{? = call storedProcedures(&#039;Param1'[,,&#039;Param2'[,?]...])}
```

Examples:

```
stmt = con.createStatement();
stmt.execute("{call MyProc('value')}");

pr = con.prepareStatement("{call MyProc('value')}");
pr.setString("value");
pr.execute();
```

```
stmt = con.createStatement();
stmt.setString("value");
stmt.execute();
```

```
pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.execute();
```

```
pr = con.prepareStatement("{call MyProc('value')}");
pr.setString("value");
pr.execute();
```

```
pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.execute();
```

```
```
<h3 id="functions">4.3 Functions</h3>

<p>Numeric Functions</p>
<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>

<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)}

<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>
<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: &quot;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;</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
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 these 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 API 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

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:..." and 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 to use the ASCII 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.

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
- GEOGRAPHY
- GEOMETRY
- HIERARCHYID

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.
7.1. 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>setNull</td>
<td>NULL</td>
<td>..</td>
</tr>
<tr>
<td>Method</td>
<td>Type</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------</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 NVARCHAR, 8000 VARCHAR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8000 TEXT</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td>NVARCHAR</td>
<td>8000 TEXT</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td></td>
</tr>
<tr>
<td>setClob</td>
<td>NVARCHAR</td>
<td>8000 NVARCHAR, 8000 VARCHAR</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td></td>
</tr>
<tr>
<td>setCharacterStream</td>
<td>NVARCHAR</td>
<td>8000 NVARCHAR, 8000 VARCHAR</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td></td>
</tr>
<tr>
<td>setDate</td>
<td>DATETIME</td>
<td></td>
</tr>
<tr>
<td>setTime</td>
<td>DATETIME</td>
<td></td>
</tr>
<tr>
<td>setTimestamp</td>
<td>DATETIME</td>
<td></td>
</tr>
<tr>
<td>setBytes</td>
<td>VARBINARY</td>
<td>8000 &amp;8211; IMAGE</td>
</tr>
<tr>
<td>setBinaryStream</td>
<td>IMAGE</td>
<td></td>
</tr>
<tr>
<td>setBlob</td>
<td>IMAGE</td>
<td></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:
   ... 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))"
<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>
<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>

Concurrency type is one of the following concurrency control options.

**Concurrent Read-Only**

Read-only cursor. You cannot modify rows in the cursor result set.
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 non-text, non-image 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 non-text, non-image values. </td>
</tr>

<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 "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 <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.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:

<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>
</tbody>
</table>


waitTimeToNextAttempt - 500

property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.

totalTimeOfAttempts - 30

property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.

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.

example URLs:
jdbc:inetpool:inetora:localhost?database=orcl&amp;useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=100&amp;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:
//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();

</pre>

<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:

<li class="level1"><div class="li"><strong>Modify the database</strong><br/>You can modify the database with the following SQL statement<br/>ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON<br/></div></li>

<li class="level1"><div class="li"><strong>initSQL</strong><br/>If you do not change the level at using of connection then you can set it at creation of the connection with:<br/>initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT<br/></div></li>

<li class="level1"><div class="li"><strong>Executing a statement</strong><br/>You can also change it with the following Java line:<br/>conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");<br/></div></li>

<li class="level1"><div class="li"><strong>setTransactionIsolation</strong><br/>Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:<br/>conn.setTransactionIsolation(4096);<br/></div></li>

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>
</table>
</p>
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: </td><td class="col2 leftalign"> Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC </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>
</table></div>

<h2 id="support">13. Support</h2>
<div class="level2">
<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>
<p>Support is available per email (replace at with @):</p>
</div>
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 with "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 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/array (int i)
- CallableStatement.getURL ="int-i"
- All method with a named parameter.
- DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)
- DatabaseMetaData/attributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)
- ResultSet/getObject (int i, java.util.Map map)
- ResultSet/Ref (int i)
- ResultSet/array (int i)
- ResultSet/getURL ="int-i"
<li class="level2"><div class="li"> ResultSet.updateArray (int i, Array x)</div></li>
<li class="level2"><div class="li"> ResultSet.updateRef (int i, Ref x)</div></li>
<li class="level2"><div class="li"> All setXXX methods in Blob and Clob.</div></li>
</ul>
</div>

<h2 id="using-ssl-connections">16. Using SSL connections</h2>
<div class="level2">
<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 class="level1"><div class="li"> a server-wide certificate on the computer with the MS SQL Server 2000.</div></li>
</ul>
</div>
<p><em>Note:</em>: You don’t need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.</p>
<p><strong>WARNING</strong>: 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.</p>
<ul>
<li class="level1"><div class="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.</div></li>
</ul>
<p>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.</p>
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.
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".

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 should 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.
16.3. Installing a Certificate

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 &quot;computer account&quot;.

Select the Certificate in the &quot;Personal&quot; or &quot;Own Certificate&quot; 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.

</p>
</div>

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

<div class="level3">

<div class="table "><table class="inline">
<tr class="row0">
<td class="col0"> <strong>value</strong> </td><td class="col1"> <strong>description</strong> </td>
</tr>
<tr class="row1">
<td class="col0"> 0 </td><td class="col1"> 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 class="row2">
<td class="col0"> 1 (default) </td><td class="col1"> Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever. </td>
</tr>
<tr class="row3">
<td class="col0"> 2 </td><td class="col1"> Always uses SSL. This will throw an exception if the MS SQL Server 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 class="level1">
<li class="level1"><div class="li"> For XA support the extended procedures was replaced with a NT-Service. </div></li>
<li class="level1"><div class="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. </div></li>
</ul>
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.

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.

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 #039;1999-5-5#039; 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.

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.

17.7. 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 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 isFirstFirst 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 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.
- 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.
- 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 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 itself an other SP with out-parameter.

The following bug has been fixed: 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 &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.

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 &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 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 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 "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.executeUpdate() 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().

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 followed 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 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 &quot;sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid.&quot; 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.
- 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.
- 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.


- 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.".
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- 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 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 &quot;SELECT {ts '2007-10-19 10:20:30.000'}&quot; 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 &quot;The data types ntext and nvarchar are incompatible in the is operator.&quot;.

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 &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>&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;;

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<br/>&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;;

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

<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.</li>

<li>The error "Fatal error on prepare. Connection will be closed." which occurred with a very fast cancel() was fixed.</li>

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

<li>The error message "Could not find prepared statement with handle 0." was fixed.</li>

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

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

<li>The call ResultSet.findColumn(""); did not find empty columns.</li>

<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.”</li>

<li>Some error handling was added for connecting to prevent problems in stress conditions.</li>

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

<li>A bug with large server certificates (\ge 8KBit) was fixed. A connection was only possible with secureLevel=0.</li>

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

</ul>

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 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 inetd6a7 and prepare=false.

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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.

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 uses 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.

<li class="level1"><div class="li">A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII 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 ResultSet.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>

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>

<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>


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


<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>

- 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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This package contains a full DFA/NFA implementation with Unicode alphabet and support for all standard regular expression operations.

For more information, go to the package home page at http://www.brics.dk/~amoeller/automaton/

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/clustering-carrot2/lib/Jama-1.0.2.jar
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ASF

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/parse-swf/lib/javaswf.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/bcprov-jdk14-132.jar

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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

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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

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

ASF

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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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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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
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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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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 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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<td>Heiko W. Rupp</td>
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* Third-Party Component Notices

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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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least three years, to give the same user the materials
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e) Verify that the user has already received a copy of these
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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.

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 -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>
```
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, 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)
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

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>

...

<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>
```

...
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:
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 permutatin 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
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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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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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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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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
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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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(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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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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314

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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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</TABLE></p>
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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

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   1.2 Using the Driver in an Applet

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Changes

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

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

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

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)</div>
<li class="level2"><div class="li"><span class="li"><a href="#changes-in-version-803-17-apr-2013" class="inlinetoc">17.27. Changes in Version 8.03  (17. Apr 2013)</a></span></div></li>
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
<pre class="code html4strict">
<APPLET CODE="..." Codebase="..." ARCHIVE="Merlia.jar" WIDTH="100%" HEIGHT="100%"&gt;
...
</APPLET>
</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>
</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 (with Java 6.0)</td>
<td>4.0</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>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC &lt;abbr title=&quot;Application Programming Interface&quot;&gt;API&lt;/abbr&gt;</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>Yes</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

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:
<h4 id="for-microsoft-sql-server-65">For Microsoft SQL Server 6.5:</h4>

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.

<h4 id="for-microsoft-sql-server-70">For Microsoft SQL Server 7.0:</h4>

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.

<h3 id="login-types">2.4 Login Types</h3>

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: `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>
</table>
com.inet.tds.PDataSource This is a pooled DataSource. <td class="col1"> This is pooled DataSource. </td></tr>
<tr class="row2">
<td class="col0"> com.inet.tds.DTCDataSource </td><td class="col1"> 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>
</table></div>
<p>For a list of DataSource Properties look in the API documentation</p>
</div>

<h3 id="jdbc-url-subprotocols">2.6 JDBC URL Subprotocols</h3>
<div class="level3">
<div class="table ">
<table class="inline">
<tr class="row0">
<td class="col0"> jdbc:inetdae7: .... </td><td class="col1"> 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 class="row1">
<td class="col0"> jdbc:inetdae7a: .... </td><td class="col1"> 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 </td>
</tr>
<tr class="row2">
<td class="col0"> jdbc:inetdae6: .... </td><td class="col1"> SQL Server 6.5 compatible mode (passwords are transferred 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>
<table>
<thead>
<tr>
<th>row0</th>
<th>jdbc:inetdae7:hostname:portnumber</th>
<th>col1</th>
<th>jdbc:inetdae7:hostname:portnumber</th>
<th>default port 1433</th>
</tr>
</thead>
<tbody>
<tr>
<td>row1</td>
<td>jdbc:inetdae7:hostname</td>
<td>col1</td>
<td>jdbc:inetdae7:hostname</td>
<td>1433</td>
</tr>
<tr>
<td></td>
<td>with default port 1433</td>
<td></td>
<td>with properties</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with properties</td>
<td></td>
<td>with named instance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with named instance</td>
<td></td>
<td>of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with named instance</td>
<td></td>
<td>with named instance</td>
<td></td>
</tr>
<tr>
<td>row3</td>
<td>jdbc:inetdae7:servername/pipe/pipename</td>
<td>col1</td>
<td>jdbc:inetdae7:servername/pipe/pipename</td>
<td>1434</td>
</tr>
<tr>
<td></td>
<td>&gt; with named pipes</td>
<td></td>
<td>&gt; with named pipes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; with named instance</td>
<td></td>
<td>&gt; named instance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with named instance</td>
<td></td>
<td>with named instance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with named instance</td>
<td></td>
<td>with named instance</td>
<td></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
2.9 Implemented Driver Properties

- **database**: default is the user default database
- **language**: default is "" → SQL Server default language
- **user**: the database user, if empty the current windows user is used
- **password**: password of the database user
- **charset**: see Character Converting
- **initSQL**: This expression is executed once per connection.
<table>
<thead>
<tr>
<th>nowarnings</th>
<th>&quot;true&quot; getWarnings() returns null</th>
</tr>
</thead>
<tbody>
<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>secureLevel</td>
<td>default is 1; set the level of <a href="#the-driver-option-securelevel">security with SSL</a> security with SSL.</td>
</tr>
<tr>
<td>prepare</td>
<td>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</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>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.</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>&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.</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>---------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is &quot;true&quot;&lt;br/&gt;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>useCursorsAlways</td>
<td>default is &quot;false&quot;&lt;br/&gt;&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)&lt;br/&gt;A list of valid values can find in chapter &lt;a href=&quot;#scrolling-cursor-types&quot; title=&quot;Scrolling Cursor Types&quot; class=&quot;wikilink1&quot;&gt;Scrolling Cursor Types&lt;/a&gt;.</td>
</tr>
<tr>
<td>useInsteadOfTrigger</td>
<td>default is false&lt;br/&gt;&quot;true&quot; - in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger.</td>
</tr>
<tr>
<td>impltran</td>
<td>with Driver the default is&lt;br/&gt;true&lt;br/&gt;for compatibility with the JDBC-ODBC bridge.&lt;br/&gt;with DataSource the default is false; to reduce deadlock problems&lt;br/&gt;If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction.</td>
</tr>
<tr>
<td>Column</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>fulltran</strong></td>
<td>fulltran 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><strong>dstsave</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>statusRequest</strong></td>
<td>statusRequest Set the mode with which the \textit{Application Programming Interface} 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><strong>fastbatch</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>fetchsize</strong></td>
<td>fetchsize \textit{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><strong>host</strong></td>
<td>host override the value in the JDBC \textit{Uniform Resource Locator} 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 \textit{instance}</td>
</tr>
<tr>
<td><strong>instance</strong></td>
<td>instance override the value in the JDBC \textit{Uniform Resource Locator} URL, required the UDP port 1434</td>
</tr>
<tr>
<td><strong>port</strong></td>
<td>port override the value in the JDBC \textit{Uniform Resource Locator} URL</td>
</tr>
</tbody>
</table>
failover  see chapter &quot;Failover on getConnection()&quot;  

mars  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 on demand and not alltogether. 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.

<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.67c26e572542f9b2e52207f2f957253.html#setMode%28int%29" target="_blank" class="wikilink1">API documentation</a> for more details.  

<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 <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.

<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.  

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
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.
</p>
</div>

<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 PLEXAtm) 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="withjndi">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®&#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

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

4.2 Stored Procedures

```
{call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?][...])}
{? = call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?][...])}
```

Examples:
```
st <span class="sy0">=</span> con.<span class="me1">createStatement</span><span class="br0"></span>
st.<span class="me1">execute</span><span class="br0"></span>
pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span><span class="br0"></span>
pr.<span class="me1">execute</span><span class="br0"></span>
pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span><span class="br0"></span>
pr.<span class="me1">execute</span><span class="br0"></span>
```

4.3 Functions

**Numeric Functions**
```
{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 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 TIMESTAMPADD(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</pre>
<h3 id="outer-join">4.4 Outer Join</h3>
<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}</pre>
<pre class="code">{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>

<h3 id="encrypt">4.5 Encrypt</h3>
<pre class="code">{encrypt N newPassword}</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 &quot;charset=YourCharSet&quot; to the url.
</p>
<p>
for example: &quot;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;<br/>
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();<br/>
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;);<br/>
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();<br/>
</p>
<p>
TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.<br/>
</p>
<p>
You can test the availability of a character set with:<br/>
&quot;test string&quot;.getBytes( charset );<br/>
If this line executes correctly the character set is available in the current VM.<br/>
</p>
<p>
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. <br/>
Example: &quot;INSERT INTO myTable(ntext field) VALUES( N'national text' )&quot;</p>
5.1 JDBC 4.0 API

JDBC 4.0 API 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 ASCII 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 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
- 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.

---

<h2 id="preparedstatement-performance-and-data-type-mapping">7. PreparedStatement Performance and Data Type Mapping</h2>

<h3 id="data-type-precedence">7.1. Data Type Precedence</h3>

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
- bit
- nvarchar
- nchar
- varchar
- image
- timestamp
- uniqueidentifier
- nvarchar
- nchar
- varchar
<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>

<p>If you use the set methods of a PreparedStatement then you will have the following mapping:</p>

<table class="inline">
  <tr class="row0">
    <td class="col0">Method</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">4000 NVARCHAR<br>&gt; 4000 NTEXT</td>
    <td class="col2">&amp;#8656; 4000 VARCHAR<br>&amp;#8656; 8000 VARCHAR</td>
  </tr>
</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:

```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)", the column type is "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 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  A forward only cursor with activated optimisation.</td>
</tr>
</tbody>
</table>
The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.

TABLE

<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>
</tbody>
</table>

Concurrency type is one of the following concurrency control options.

TABLE

<table>
<thead>
<tr>
<th>Concurrency type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>In-sensitive keyset cursor. 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
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 nontext, nonimage values.

<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:

```javascript
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:

```javascript
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.

<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.
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, PreparedStatement 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>
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:

```
//receive a Connection
<span class="co1">//receive a Connection</span>
</p>

```

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

Example:

```
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
```

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
```
class="br0">8472</span></div>

```java
//add a FailoverListener
FailoverListener fl = new samples.<span class="me1">MonitoredFailover</span>.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();
```

<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:
initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT<br/>
</div>
</li>
<li class="level1"><div class="li"><strong>Executing a statement</strong><br/>
You can also change it with the following Java line:<br/>
conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");<br/>
</div></li>
<li class="level1"><div class="li"><strong>setTransactionIsolation</strong><br/>
Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:<br/>
conn.setTransactionIsolation(4096);<br/>
</div></li>

</div>

<h2 id="debugging">12. Debugging</h2>

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.
<p>
<ol>
<li class="level1"><div class="li"> <strong>Solutions</strong><br/>
<table class="inline">
<tr class="row0">
<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="row1">
<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="row2">
<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<br/><strong>JBoss:</strong> You can set it for every DataSource in the config file with:<br/>
.....&lt;br/&gt;
....&lt;attribute name="&quot;LoggingEnabled&quot;&gt;true&lt;/attribute&gt;&lt;br/&gt;
....</td><td class="col2 leftalign">  </td>
</tr>
</table>
</li>
</ol>
</p>
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

Licensing, Pricing, Updates, ... sales at inetsoftware.de

una at inetsoftware.de

sprinta at inetsoftware.de

opta at inetsoftware.de

merlia at inetsoftware.de

Support is available per email (replace at with @):

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 @):
<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></div>

<h2 id="documentation">14. Documentation</h2>
<div class="level2">
<p>You can find more documentation at:
http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm</a>
</p>
</div>

<h2 id="known-problems">15. Known problems</h2>
<div class="level2">
<ul class="level1">
<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
<p>possible workarounds are:
</p></li>
<li class="level1">set integer values instead of Strings</li>
<li class="level1">use JDBC <abbr title="Uniform Resource Locator">URL</abbr> "jdbc:inetdae7a" - take care about no unicode support</li>
<li class="level1">set JDBC <abbr title="Uniform Resource Locator">URL</abbr> parameter "tds9=false" - 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 "for browse" 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 "char(10)"
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"`
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...
&quot;Properties&quot; from the context menu.</li>

<li class="level1"><div class="li"> Click on the &quot;Directory Security&quot; tab.</div></li>

<li class="level1"><div class="li"> Click on the &quot;Server Certificate&quot; button. A wizard should appear.</div></li>

<li class="level1"><div class="li"> Click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> The &quot;Create a new certificate&quot; radio button should be selected. Click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> The &quot;Prepare request now, but send it later&quot; radio button should be selected. Click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> Click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> Enter your organization name and unit and click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> Enter your State and City. Click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> Accept the default file name of c:\certreq.txt and click the &quot;Next&quot; button.</div></li>

<li class="level1"><div class="li"> Click the Next button, then click Finish.</div></li>

</ul>

<p>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.</p>

</div>

<h3 id="create-a-certificate-with-the-certificate-server">16.2. Create a Certificate with the Certificate Server</h3>

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

<p>Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.</p>
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 <abbr title="Uniform Resource Locator">URL</abbr> 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.
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.

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>0</td>
<td>Low</td>
</tr>
<tr>
<td>1</td>
<td>Medium</td>
</tr>
<tr>
<td>2</td>
<td>High</td>
</tr>
</tbody>
</table>
<table>
  <tr class="row1">
    <td class="col0">0</td>
    <td class="col1">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 class="row2">
    <td class="col0">1 (default)</td>
    <td class="col1">Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
  </tr>
  <tr class="row3">
    <td class="col0">2</td>
    <td class="col1">Always uses SSL. This will throw an exception if the MS SQL Server 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>

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). </div>
</li>
<li class="level1"><div class="li"> A bug with wasNull() and getXXX( x, Calendar) was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with isFirst() in CachedRowSet was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with DTDataSource, SQL Server 7 and WebLogic was fixed.</div>
</li>
<li class="level1"><div class="li"> A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.</div>
</li>
<li class="level1"><div class="li"> The error "Disallowed implicit conversion ...&quot; with CachedRowSet and null values was fixed.</div>
</li>
<li class="level1"><div class="li"> Property initSQL was added.</div>
</li>
<li class="level1"><div class="li"> A loop for name resolution of the instance name was added.</div>
</li>
<li class="level1"><div class="li"> A reconnect for the DTCPProxy was added if a network error occur.</div>
</li>
<li class="level1"><div class="li"> In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.</div>
</li>
</div>

<h3 id="changes-in-version-502-merlia-202-8-may-2003">17.3 Changes in Version 5.02 (MERLIA 2.02)  (8. May 2003)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> A bug with CachedRowSet and setXXX was fixed. It works without clearParameters() now.</div>
</li>
<li class="level1"><div class="li"> A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type &quot;money&quot;.&lt;/div&gt;
</li>
<li class="level1"><div class="li"> A dead-lock that could occur in PoolManager.closeAll() was fixed.</div>
</li>
<li class="level1"><div class="li"> The error &quot;Cookie from MSDTC is null&quot; was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.</div>
</li>
<li class="level1"><div class="li"> Method PoolManager.closeConnection(Connection) was added.</div>
</li>
</ul>
</div>
Errors in ResultSet.close() are caught now.

A very rare protocol violation with many columns, SQL Server 2000 and the datatype 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 NullPointerExeption 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
The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateFunctions() 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.

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.
- 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.
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.

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 "Invalid object name" had been issued by mistake.
- 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.
Connection.createStatement(int,int)</li>

<li class="level1"><div class="li"> Log output extended with information about Connection ID</div></li>

<li class="level1"><div class="li"> Performance improvement in ResultSet class.</div></li>

<li class="level1"><div class="li"> A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).</div></li>

<li class="level1"><div class="li"> Reading out type money and type smallmoney from sql_variant column was fixed.</div></li>

</ul>

</div>


<ul class="level3">

<li class="level1"><div class="li"> New driver property &quot;dstsave&quot;</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 worked. 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.</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.executeUpdate() and Driver subprotocol inetdae7 and inetdae7a.</div></li>

<li class="level1"><div class="li"> since 6.04.12, prepare end execute statements didn’t worked 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"> 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>
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 &quot;ArrayIndexOutOfBoundsException: 2&quot; 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.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 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
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].

<ul>
  <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.</li>
  <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.</li>
  <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.";</li>
  <li> Instances of PDataSource could not have been serialized.</li>
  <li> <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> 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.";</li>
  <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.</li>
  <li> Fix a bug with Windows NT authentication and SQL Server 2005.</li>
  <li> Connection property resultSetType added.</li>
</ul>


<ul>
  <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.</li>
  <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.</li>
</ul>
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 (>= 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 "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
<li><div class="li"> Removed the finalize() method from the Connection object.</div></li>
<li><div class="li"> Fix a hanging of the finalizer thread in SSL.SSLSocketImpl.close() if an SSL connection was lost and the default query timeout was unlimited.</div></li>
<li><div class="li"> Statement.RETURN_GENERATED_KEYS disabled server-side prepare to return the right values with triggers.</div></li>
<li><div class="li"> Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().</div></li>

<ul>
<li><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><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><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><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><div class="li"> A memory leak in the DTCProxy was fixed.</div></li>
<li><div class="li"> Long-running XA transactions were rolled back after 10 minutes under very rare conditions.</div></li>
</ul>

<ul>
</ul>
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.
<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>

</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>
<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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AdventNet SNMPV3 Release 2.2.1

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ASF

lib/log4j-1.2.15.jar
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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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src/plugin/urlfilter-automaton/lib/automaton.jar

dk.brics.automaton
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Anders Moeller
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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-util-common.jar
src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.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

/\*--

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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

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/*

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

ASF
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Version 3, 29 June 2007


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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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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

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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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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You must give prominent notice with each copy of the work that the

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Library is used in it and that the Library and its use are covered by

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this License. You must supply a copy of this License. If the work

281

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
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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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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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

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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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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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d) If distribution of the work is made by offering access to 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
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>
```
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.
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 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:
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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* Documentation Location
* Third-Party Component Notices

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

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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.

305

306

c) Accompany the work with a written offer, valid for at

307

least three years, to give the same user the materials

308

specified in Subsection 6a, above, for a charge no more

309

than the cost of performing this distribution.

310

311

d) If distribution of the work is made by offering access to copy

312

from a designated place, offer equivalent access to copy the above

313

specified materials from the same place.

314

315

e) Verify that the user has already received a copy of these

316

materials or that you have already sent this user a copy.
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Ty Coon, President of Vice

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Open Source Used In Unified Contact Center Enterprise 12.0
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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--- INLINETOC END ---

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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

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<th>minimum required JDK version</th>
<th>JDBC Version</th>
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</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>JDBC API</th>
<th>1.22</th>
<th>2.0</th>
<th>2.0+</th>
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<td>PreparedStatement pooling</td>
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<td>Connection Pooling</td>
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<td>DataSource</td>
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<td>Pooled Driver with Internal Pooling</td>
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<td>Yes</td>
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<tr>
<td>Pool Manager i-net PLEXA</td>
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<td>Distributed Transactions (XA)</td>
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<tr>
<td>Savepoints on Transactions</td>
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<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple Open ResultSets per Statement</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
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</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:

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 6.5:

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 <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: <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

This is a simple DataSource. Also named JDBC 1 DataSource. <td class="row1">com.inet.tds.PDataSource</td> This is pooled DataSource. <td class="row1">com.inet.tds.DTCDataSource</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.

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>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 <code>&amp;sql7=true</code>)</td>
</tr>
<tr>
<td>jdbc:inetdae7a:hostname</td>
<td>support of the SQL Server 7.0 (or higher) feature with <strong>ASCII</strong> data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 <strong>API</strong> compliance is required. <a href="#jdbc-40-api">see character converting JDBC 4.0 API</a></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</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>

---

<h3 id="jdbc-url-syntax-of-the-driver">2.7 JDBC URL Syntax of the driver</h3>

- `jdbc:inetdae7:hostname:portnumber`<br>with default port 1433
- `jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english`<br>with properties
- `jdbc:inetdae7:hostname/instancename`<br>with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434
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
<table>
<thead>
<tr>
<th>Database Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>database</strong></td>
<td>Default is the user default database</td>
</tr>
<tr>
<td><strong>language</strong></td>
<td>Default is &quot;&quot; → SQL Server default language</td>
</tr>
<tr>
<td><strong>user</strong></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;</td>
</tr>
</tbody>
</table>
The new datatypes are supported; this property works only with the classic subprotocol `inetdae`:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>secureLevel</td>
<td>default is 1; set the level of security with SSL.</td>
</tr>
<tr>
<td>prepare</td>
<td>default is <code>true</code>; PreparedStatements are prepared on the SQL Server.</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>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.</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is <code>false</code>; If the value is <code>true</code>, 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.</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 <code>true</code>; 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>
</tbody>
</table>
Open Source Used In Unified Contact Center Enterprise 12.0

<table>
<thead>
<tr>
<th>appname</th>
<th>Application name (only Application and Enterprise licenses)</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>
| useCursorsAlways | default is "false"<br/>
true; the method executeQuery always uses server cursors. |
| resultSetType | 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</td>|
| useInsteadOfTrigger | 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. |
| impltran | 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. |
| fulltran | default is "true"<br/>
creates always a transaction with setAutoCommit( false );<br/>
only if needed With the option fulltran=true the method setAutoCommit() uses BEGIN TRAN;&quot; and 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 SET IMPLICIT_TRANSACTIONS ON;&quot; and 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. |
| dstsave | default is true<br/>
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.

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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 instance:</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 (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>
</tbody>
</table>
| 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.

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
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 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:

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

Comments of the switches:

- **SAPWD**: Set the password for the sa account. This is required for Windows Server 2003.
- **SECURITYMODE**: 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.

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™.

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™).

Package sample.xa
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

examples:
<div><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.setString("value");
pr.execute();
</pre></div>

<h3 id="functions">4.3 Functions</h3>

<p>Numeric Functions</p>

<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)}
</pre>
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_FRACSECOND
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
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(&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 these 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.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 ASCII 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:
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:
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
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>⇐ 8000 VARCHAR&lt;br/&gt;&gt; 8000 TEXT</td>
<td>..</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:

... 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 be 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</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only</td>
</tr>
<tr>
<td>TYPE_SCROLL_INSENSITIVE</td>
<td>Insensitive keyset cursor</td>
</tr>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor</td>
</tr>
<tr>
<td>TYPE_SCROLLSENSITIVE+1</td>
<td>Dynamic cursor</td>
</tr>
</tbody>
</table>
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.

- **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.
- **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 nontext, nonimage values.

Failover on `getConnection()`:

- 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.
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
j 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 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.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:

```
<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 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>
```

Example URLs:

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

---

<h3 id="configuration-in-java">10.3.2 Configuration in Java</h3>

---
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:

```
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:

<ul class="level1">
  <li class="li">com.inet.pool.PoolDriver</li>
  <li class="li">com.inet.ora.PDataSource</li>
  <li class="li">com.inet.tds.PDataSource</li>
  <li class="li">com.inet.syb.PDataSource</li>
  <li class="li">com.inet.drda.PDataSource</li>
</ul>

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

```
<span class="br0">(</span><span class="br0">TAFConnection</span>con<span class="br0">).<span class="me1">removeFailoverListener</span>(</span><span class="br0">fl</span><span class="br0">;</span>  

//remove all FailoverListener
<span class="br0">(</span><span class="br0">TAFConnection</span>con<span class="br0">).<span class="me1">removeAllFailoverListener</span>(</span><span class="br0">;</span>  

//get all registered FailoverListener
FailoverListener<span class="br0">f</span>ls <span class="br0">=</span> getFailoverListener(</span><span class="br0">;</span>  

</div> 

</h2> 

11. Snapshot Transaction Isolation</h2> 

<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> 

<ol> 

<li class="level1"><div class="li"> <strong>Modify the database</strong>
You can modify the database with the following SQL statement
ALTERTABLE DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON</div> 

</li> 

<li class="level1"><div class="li"> <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:<br/>initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT</div> 

</li> 

<li class="level1"><div class="li"> <strong>Executing a statement</strong>
You can also change it with the following Java line:<br/>conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");</div> 

</li> 

<li class="level1"><div class="li"> <strong>setTransactionIsolation</strong>
Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr> with:<br/>conn.getTransactionIsolation(4096);</div> 

</li> 

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

```html
<tr class="row0">
    <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="row1">
    <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="row2">
    <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:<br/>
        ....&lt;br/&gt;
        &lt;attribute name=&quot;LoggingEnabled&quot; value=&quot;true&quot;&gt;&lt;/attribute&gt;&lt;br/&gt;
    </td>
    <td class="col2 leftalign">  </td>
</tr>
<tr class="row3">
    <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="row4">
    <td class="col0"> JDBC <abbr title="Uniform Resource Locator">URL</abbr> option &quot;logging=true&quot; </td>
    <td class="col1"> jdbc:inetdae7:localhost?logging=true </td>
    <td class="col2 leftalign">  </td>
</tr>
```

---

<h2 id="support">13. Support</h2>
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: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). This is a temporary workaround.

- 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.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.

<h2 id="using-ssl-connections">16. Using SSL connections</h2>
<p>16. Using SSL connections</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:

<em>Note:</em> You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005
installs a certificate on setup.\</div>\</blockquote>

\</div>\</strong> WARNING\</strong>: 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.\</div>\</blockquote>

\ul\li class="level1"\li class="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.\</div>\</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.

\</p>\n
\</div>\n
<h3 id="create-a-certificate-request">16.1. Create a Certificate Request</h3>

\</div>\n
This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

\</p>\n
\ul\li class="level1"\li class="li"> Run the Internet Services Manager that is located in the Administrative Tools folder.\</div>\</li>\n
\li class="level1"\li class="li"> Right-click on the Default Web Site node for the server and select Properties; from the context menu.\</div>\n
\li class="level1"\li class="li"> Click on the Directory Security tab.\</div>\n
\li class="level1"\li class="li"> Click on the Server Certificate button. A wizard should appear.\</div>\n
\li class="level1"\li class="li"> Click the Next button.\</div>\n
\li class="level1"\li class="li"> The Create a new certificate radio button should be selected. Click the Next button.\</div>\n
\li class="level1"\li class="li"> The Prepare request now, but send it later radio button should be selected. Click the Next button.\</div>
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 <abbr title="Uniform Resource Locator">URL</abbr> 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&quot; field, then click the &quot;Next&quot; button. </div>
</li>
<li class="level1"><div class="li"> It will tell you the request is pending. Click on the home hyperlink at the top. </div>
</li>
<li class="level1"><div class="li"> Run the Certificate Authority application that is located under Administrative Tools. </div>
</li>
<li class="level1"><div class="li"> Click on Pending Requests. You'll see the request that you just made in there. </div>
</li>
<li class="level1"><div class="li"> Right-click on the request and select All Tasks/Issue. </div>
</li>
<li class="level1"><div class="li"> 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>
</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>
</div>

<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>
</div>

<h3 id="uninstalling-a-certificate">16.4. Uninstalling a Certificate</h3>
<div class="level3"/>
This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.

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 (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 Certificate is not valid or if a certificate is not installed.</td>
</tr>
</tbody>
</table>
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>

<div class="level3">
<ul>
<li class="level1"><div class="li"> For XA support the extended procedures was replaced with a NT-Service.</div></li>
<li class="level1"><div class="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.</div></li>
</ul>
</div>

<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>
<div class="level3">
<ul>
<li class="level1"><div class="li"> The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.</div></li>
<li class="level1"><div class="li"> ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).</div></li>
<li class="level1"><div class="li"> A bug with wasNull() and getXXX( x, Calendar) was fixed.</div></li>
<li class="level1"><div class="li"> A bug with isFirst() in CachedRowSet was fixed.</div></li>
<li class="level1"><div class="li"> A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.</div></li>
<li class="level1"><div class="li"> A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.</div></li>
<li class="level1"><div class="li"> The error "Disallowed implicit conversion ..." with CachedRowSet exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</div></li>
</ul>
</div>
and null values was fixed.</div>
</li>
<li class="level1"><div class="li"> Property initSQL was added.</div>
</li>
<li class="level1"><div class="li"> A loop for name resolution of the instance name was added.</div>
</li>
<li class="level1"><div class="li"> A reconnect for the DTCProxy was added if a network error occur.</div>
</li>
<li class="level1"><div class="li"> In CachedRowSet and JDBCRowSet the methods absolute() and relative fire
cursorMoved event now.</div>
</li>
</ul>
</div>

<h3 id="changes-in-version-502-merlia-202-8-may-2003">17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May
2003)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> A bug with CachedRowSet and setXXX was fixed. It works without
clearParmeters() now.</div>
</li>
<li class="level1"><div class="li"> A bug with the method updateFloat and updateDouble in CachedRowSet was
fixed. The scale was 0, e.g. for the column type &quot;money&quot;.</div>
</li>
<li class="level1"><div class="li"> A dead-lock that could occur in PoolManager.closeAll() was fixed.</div>
</li>
<li class="level1"><div class="li"> The error &quot;Cookie from MSDTC is null&quot; was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with setCharacterStream() not working with inetdae7a and prepare=true
was fixed.</div>
</li>
<li class="level1"><div class="li"> Method PoolManager.closeConnection(Connection) was added.</div>
</li>
<li class="level1"><div class="li"> Errors in ResultSet.close() are caught now.</div>
</li>
<li class="level1"><div class="li"> A very rare protocol violation with many columns, SQL Server 2000 and the
datatype TEXT or NTEXT was fixed.</div>
</li>
<li class="level1"><div class="li"> The bug with setMaxRows() not working in conjunction with forward only
server cursors was fixed.</div>
</li>
<li class="level1"><div class="li"> Connections with a read timeout are removed from the connection pool.</div>
</li>
</ul>
</div>
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.

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
<ul>
<li class="level1"><div class="li">SSL fails was fixed.</div></li>
<li class="level1"><div class="li">A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp, Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.</div></li>
<li class="level1"><div class="li">The ClassNotFoundException with SSL on the console with JDK 1.3 was removed.</div></li>
<li class="level1"><div class="li">The method getColumnDisplaySize() returns the correct size for NUMERIC and DECIMAL data types now.</div></li>
<li class="level1"><div class="li">Fixes in isAfterLast and isBeforeFirst for empty Resultsets</div></li>
<li class="level1"><div class="li">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>


<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 (File Transfer Protocol), 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>
</ul>
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 PreparedStatement/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 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 &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 exrescent stacktrace log output was removed.

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 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 &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 &quot;ArrayIndexOutOfBoundsException: 2&quot; with PreparedStatement.executeUpdate 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 equals from TdsDataSource and it subclasses does not work after creating a connection. This was critical for the size of a pool.

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 Application Programming Interface 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 &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br/>&lt;xyz2005&gt;Could not find server &amp;#039;xyz2005&amp;#039; 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, 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.

`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 'xyz2005' 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 'xyz2005' 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 (&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 "You are tried to connect to 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.

Fixed the very rare exception "java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)" on getConnection().
<div class="level3">
</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>

<div class="level3"/>
<ul>
<li class="level1">Added property packetSize and changed the default from server default to 8000.</li>
<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>


<ul>
<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 inetda6 and inetda7a).</li>
<li class="level1">A regression with ParameterMetaData note setting parameters was fixed.</li>
<li class="level1">An ArrayIndexOutOfBoundsException on ResultSet.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>
<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>

- 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`
- Added support for setObject with Types.BLOB and a value of byte[] or InputStream was added.
- Fixed 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/lib-jakarta-poi/lib/poi-scratchpad-3.5-beta4-20081128.jar

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Anders Moeller
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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/Jama-1.0.2.jar
ASF

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

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$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

/*

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

/"--

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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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*/

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.
*
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('u0000');
        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;
        }
        return tot;
    }
}

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);
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);

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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();
    }
}

4.200 jline 0.9.94

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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.)
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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
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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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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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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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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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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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 * version: 1.0 (2008-04-17)
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 *
 * Brantley Harris technically wrote this plugin, but it is based somewhat
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</module>

<module name='testng'
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  version='6.8'
  projectHome='http://www.testng.org'
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4.213 jxl 1.4.2_02-b03

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JUnit test library (junit-3.8.1.jar)

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<html xmlns="http://www.w3.org/1999/xhtml">
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<style type='text/css'>
body { background: white; color: black; }
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http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
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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:
http://www.w3.org/TR/SVG11/java.html
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4.228 nekohtml 1.9.12

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For more information, go to the package home page at http://www.brics.dk/~amoeller/automaton/

Anders Moeller
amoeller@brics.dk

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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-tokenizer.jar
src/plugin/clustering-carrot2/lib/carrot2-local-core.jar

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ASF

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ASF

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/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/lib-xml/lib/jdom.jar

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$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp$

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src/plugin/lib-xml/lib/xercesImpl.jar
4.230 ojdbc14 10.2.0.2.0

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version='6.8'
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description='Used for unit testing'>
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version='2.4.D1'
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description='Xalan-Java is an XSLT processor for transforming XML documents. Used to generate HTML test reports from XML (testing time)'>
<jar name='xalan.jar'/>
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its purpose remains meaningful.

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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

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therefore falls outside the scope of this License.

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However, linking a "work that uses the Library" with the Library

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creates an executable that is a derivative of the Library (because it

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contains portions of the Library), rather than a "work that uses the

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library". The executable is therefore covered by this License.

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Section 6 states terms for distribution of such executables.

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When a "work that uses the Library" uses material from a header file

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that is part of the Library, the object code for the work may be a

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derivative work of the Library even though the source code is not.

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Whether this is true is especially significant if the work can be

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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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work. (Executables containing this object code plus portions of the

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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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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>
```
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
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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:

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2.3. Executing different groups
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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 class name 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:

<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

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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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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

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linked with it, is called a "work that uses the Library". Such a

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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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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

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Whether this is true is especially significant if the work can be

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If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the

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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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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

user can modify the Library and then relink to produce a modified

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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

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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
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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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reproducing the executable from it. However, as a special exception,

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* Documentation Location
* Third-Party Component Notices

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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

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<META NAME="description" CONTENT="The actual text from the License Agreement included with the Sentry Spelling-Checker Engine SDKs, provided here as a sample."/>

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Sentry Spelling Checker Engine</H2>

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</DIV>
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="#jdbc-url-syntax-of-the-driver" class="inlinetoc">2.7 JDBC URL Syntax of the driver</a></span></div>
<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></span></div>
<li class="level2"><div class="li"><span class="li"><a href="#implemented-driver-properties" class="inlinetoc">2.9 Implemented Driver Properties</a></span></div>
<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></span></div>
<li class="level2"><div class="li"><span class="li"><a href="#connection-examples" class="inlinetoc">2.11 Connection Examples</a></span></div>
</ul></li>
</ul></p>
Connection Examples

3. Named Pipes

4. Escape Clauses

4.1 Date and Time

4.2 Stored Procedures

4.3 Functions

4.4 Outer Join

4.5 Encrypt

5. Character Converting
6. New Datatypes

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6.2 New Datatypes with SQL Server 2005

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7.1. Data Type Precedence

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16.2. Create a Certificate with the Certificate Server

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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)


17.27. Changes in Version 8.03 (17. Apr 2013)


17.29. Changes in Version 8.05 (9. Apr 2014)


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18. Copyright
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, srinta.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.

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>Product</td>
<td>col0</td>
<td>col1</td>
</tr>
<tr>
<td>Product</td>
<td>col2</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>JDBC API</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>JDBCRowSet</td>
<td>No</td>
<td>No</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: <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

| com.inet.tds.TdsDataSource | This is a simple DataSource. Also named JDBC 1 DataSource. |
| com.inet.tds.PDataSource | This is pooled DataSource. |
| com.inet.tds.DTCDataSource | 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 it need. Using XA may result in a considerable performance decrease. |

For a list of DataSource Properties look in the <a href="doc/index.html" target="_blank">API documentation</a>.
<h3 id="jdbc-url-subprotocols">2.6 JDBC URL Subprotocols</h3>

Content of the table:

<table>
<thead>
<tr>
<th>jdbc:inetdae7: hostname:portnumber</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: 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 API 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: hostname:portnumber</td>
<td>SQL Server 6.5 compatible mode (passwords are transfered 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>

<h3 id="jdbc-url-syntax-of-the-driver">2.7 JDBC URL Syntax of the driver</h3>

Content of the table:

| jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english | with properties |
| jdbc:inetdae7:hostname | &amp;#8211;&gt; with default port 1433 |
| jdbc:inetdae7:hostnameinstancename | &amp;#8211;&gt; with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434 |
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
<table>
<thead>
<tr>
<th>Column</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; 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;</td>
</tr>
</tbody>
</table>
the new datatypes are supported

this property works only with the classic subprotocol &quot;inetdae&quot;

</td>
</tr>
<tr class="row9">
<th class="col0 leftalign"> secureLevel          </th><td class="col1 leftalign"> default is 1; set the level of security with SSL;

</td>
</tr>
<tr class="row10">
<th class="col0 leftalign"> prepare              </th><td class="col1 leftalign"> default is &quot;true&quot;, PreparedStatements are prepared on the SQL Server,

PreparedStatements are prepared on the SQL Server,<br/>

 &quot;false&quot; the driver sends for every call of execute() all data

</td>
</tr>
<tr class="row11">
<th class="col0 leftalign"> prepareLiveTime      </th><td class="col1 leftalign"> default is 60<br/>

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 class="row12">
<th class="col0 leftalign"> lastUpdateCount      </th><td class="col1 leftalign"> default is &quot;false&quot;<br/>

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.

</td>
</tr>
<tr class="row13">
<th class="col0 leftalign"> loginTimeout         </th><td class="col1 leftalign"> override the value from DriverManager.getLoginTimeout()<br/>

</td>
</tr>
<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 &quot;true&quot;<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().
<table>
<thead>
<tr>
<th>appname</th>
<th>Application name (only Application and Enterprise licenses)</th>
</tr>
</thead>
<tbody>
<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;&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; class=&quot;wikilink1&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 with updateRow(). You need a INSTEAD OF trigger.</td>
</tr>
<tr>
<td>impltran</td>
<td>with Driver the default is &quot;true&quot; for compatibility with the JDBC-ODBC bridge. with DataSource the default is &quot;false&quot; to reduce deadlock problems. If the value is true then the method setTransactionIsolation() will call setAutoCommit( false ) implicitly and start a transaction.</td>
</tr>
<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; &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</td>
</tr>
</tbody>
</table>
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()`.
|                      | 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`.
|                      | i-net UNA only, the method `executeQuery()` always uses server cursors with this fetch size. The
|                      | other drivers can use `Statement.setFetchSize()`.
| host                 | 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`.
| instance             | override the value in the JDBC URL, required the UDP port 1434
| port                 | override the value in the JDBC URL
| 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.
| packetSize           | Sets the network packet size.
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.

<table>
<thead>
<tr>
<th>parameter</th>
<th>default value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>portnumber</td>
<td>8000</td>
<td>Only for DataSources. The value is equals to the JDBC sub protocol. See the API documentation for more details.</td>
</tr>
</tbody>
</table>

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.

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:

```
s:::SAPWD>Password
SECURITYMODE=SQL
DISABLENETWORKPROTOCOLS=0
```
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.
How to use the PooledConnection of the driver.

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™.

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.

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

Examples:

4.2 Stored Procedures
<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.setString("value");
pr.execute();
</pre>

<h3 id="functions">4.3 Functions</h3>

<p>Numeric Functions</p>

<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)}
</pre>
<p>Time and Date Functions</p>

<pre class="code">{fn now()}<br/>{fn curdate()}
{fn curtime()}<br/>{fn DAYNAME(datetime)}<br/>{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}<br/>{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">SQL_TSI_FRAC_SECOND<br/>SQL_TSI_SECOND<br/>SQL_TSI_MINUTE<br/>SQL_TSI_HOUR<br/>SQL_TSI_DAY<br/>SQL_TSI_WEEK<br/>SQL_TSI_MONTH<br/>SQL_TSI_QUARTER<br/>SQL_TSI_YEAR</pre>

<h3>4.4 Outer Join</h3>

<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}<br/>{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>

<h3>4.5 Encrypt</h3>
<p>By default character converting is disabled. To use character converting in the driver you need to append "charset=YourCharSet" to the url.</p>

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: "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 these columns you need to use the character N.

Example: "INSERT INTO myTable(ntext field) VALUES( N'national text' )"
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 ASCII 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 these 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:
and the enhanced data types:

- `XML`
- `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
- 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:
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>&amp;#8656; 8000 VARCHAR&lt;br&gt;&gt;8000 TEXT</td>
<td></td>
</tr>
<tr>
<td>setClob</td>
<td>&amp;#8656; 4000 NVARCHAR&lt;br&gt;&gt;4000 NTEXT</td>
<td>&amp;#8656; 8000 VARCHAR&lt;br&gt;&gt;8000 TEXT</td>
</tr>
<tr>
<td>setCharacterStream</td>
<td>&amp;#8656; 8000 VARCHAR&lt;br&gt;&gt;8000 TEXT</td>
<td></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.

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>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARDONLY-1</td>
<td>Fast-Forward</td>
</tr>
<tr>
<td>TYPE_FORWARDONLY</td>
<td>Forward-only</td>
</tr>
<tr>
<td>TYPE_SCROLLINSENSITIVE</td>
<td>Insensitive keyset cursor</td>
</tr>
<tr>
<td>TYPE_SCROLLSENSITIVE</td>
<td>Keyset cursor</td>
</tr>
<tr>
<td>TYPE_SCROLLSENSITIVE+1</td>
<td>Dynamic cursor</td>
</tr>
</tbody>
</table>

The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.

Use a concurrency of CONCUR_READONLY. 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.

Keyset cursor

The fetch functions will allow all fetchtype values.

Dynamic cursor
The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods returns always false.

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.
- **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 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 FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred before 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.<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:

Set a FailoverListener via Connection properties:

example URLs:

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

10.3.2 Configuration in Java

```
```
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:

<ul>
  <li>com.inet.pool.PoolDriver</li>
  <li>com.inet.ora.PDataSource</li>
  <li>com.inet.tds.PDataSource</li>
  <li>com.inet.syb.PDataSource</li>
  <li>com.inet.drda.PDataSource</li>
</ul>

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();</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
  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.

```
DriverManager.setLogStream(PrintStream)  
DriverManager.setLogStream( System.out );
DriverManager.setLogStream( new 
FileOutputStream("c:\;\driver.log") ); 
This method is deprecated but it work 
with all JDBC drivers. 
```

```
DriverManager.setPrintWriter(PrintWriter) 
DriverManager.setPrintWriter( new PrintWriter( System.out ) ) 
work not with JDBC 1.22 
driver like i-net UNA 
```

```
Application Server  
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:

```
....
```

```
myDataSource.setPrintWriter(PrintWriter) 
myDataSource.setPrintWriter( 
new PrintWriter( System.out ) ) 
enable the logging only for connections from this 
DataSource 
```

```
JDBC  
```

```
jdbc:inetdae7:localhost?logging=true
```

```
13. Support
```

</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:
<h2 id="known-problems">15. Known problems</h2>

<div class="level2">
<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>
</li>
<li class="level1">
<div class="li">
 set integer values instead of Strings
</div>
</li>
<li class="level1">
<div class="li">
 use JDBC URL "jdbc:inetdae7a" - take care about no unicode support
</div>
</li>
<li class="level1">
<div class="li">
 set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types
</div>
</li>
</ul>

<li class="level1">
<div class="li">
 When using named pipes, setting timeout has no effect.
</div>
</li>
<li class="level1">
<div class="li">
 When using named pipes, cancel() has no effect.
</div>
</li>
<li class="level1">
<div class="li">
 The method getTableName() requires a cursor or the "for browse" statement.
</div>
</li>
<li class="level1">
<div class="li">
 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 &quot;abc&quot;.)
</div>
</li>
<li class="level1">
<div class="li">
 The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.
</div>
</li>
<li class="level1">
<div class="li">
 The following methods are not supported by this release:
</div>
</li>
<li class="level2">
<div class="li">
 PrepareStatement.setArray (int i, Array x)
</div>
</li>
<li class="level2">
<div class="li">
 PrepareStatement.setRef (int i, Ref x)
</div>
</li>
<li class="level2">
<div class="li">
 PrepareStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-"/abbr-x"
</div>
</li>
<li class="level2">
<div class="li">
 CallableStatement.getObject (int i, java.util.Map map)
</div>
</li>
</div>
If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

<em>Note:</em> 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.

1. Run the Internet Services Manager that is located in the Administrative Tools folder.
2. Right-click on the Default Web Site node for the server and select &quot;Properties&quot; from the context menu.
3. Click on the &quot;Directory Security&quot; tab.
4. Click on the &quot;Server Certificate&quot; button. A wizard should appear.
5. Click the &quot;Next&quot; button.
6. Click the &quot;Prepare request now, but send it later&quot; button. A wizard should appear.
7. Click the &quot;Next&quot; button.
8. The &quot;Create a new certificate&quot; radio button should be selected. Click the &quot;Next&quot; button.
9. The &quot;Prepare request now, but send it later&quot; radio button should be selected. Click the &quot;Next&quot; button.
10825

<ul><li class="level1"><div class="li"> Click the "Next" button.</div></li>
<li class="level1"><div class="li"> Enter your organization name and unit and click the "Next" button.</div></li>
<li class="level1"><div class="li"> In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.</div></li>
<li class="level1"><div class="li"> Enter your State and City. Click the "Next" button.</div></li>
<li class="level1"><div class="li"> Accept the default file name of c:\certreq.txt and click the "Next" button.</div></li>
<li class="level1"><div class="li"> Click the Next button, then click Finish.</div></li></ul>

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your 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.

<ul><li class="level1"><div class="li"> Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.</div></li>
<li class="level1"><div class="li"> 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></li>
<li class="level1"><div class="li"> Run Internet Explorer and enter the <abbr title="Uniform Resource Locator">URL</abbr> http://YourCertificateServer/certsrv.</div></li>
<li class="level1"><div class="li"> Select "Request a Certificate" and click "Next".</div></li>
<li class="level1"><div class="li"> Select "Advanced Request" and click "Next".</div></li>
<li class="level1"><div class="li"> Select the PKCS#10 option and click "Next".</div></li>
<li class="level1"><div class="li"> Paste the text that you copied in notepad earlier into the "Saved
Request" field, then click the "Next" button.</li>
<li class="level1"><div class="li"> It will tell you the request is pending. Click on the home hyperlink at the top.</li>
<li class="level1"><div class="li"> Run the Certificate Authority application that is located under Administrative Tools.</li>
<li class="level1"><div class="li"> Click on Pending Requests. You'll see the request that you just made in there.</li>
<li class="level1"><div class="li"> Right-click on the request and select All Tasks/Issue.</li>
<li class="level1"><div class="li"> 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.</li>
<li class="level1"><div class="li"> You should see the "Saved-Request Certificate" in there now. Click the "Next" button. </li>
<li class="level1"><div class="li"> Click the Download CA certificate hyperlink and save the file as c:\certnew.cer. Close Internet Explorer.</li>
</ul>

<h3 id="installing-a-certificate">16.3. Installing a Certificate</h3>

<p>This is only needed for SQL Server 2000. This is not required for SQL Server 2005.</p>

<li class="level1"><div class="li"> Right-click on c:\certnew.cer in Explorer and select Install from the context menu.</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 "computer account". </li>
</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.

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 (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.</td>
</tr>
</tbody>
</table>
exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority.

## Changes

### 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.

### 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 &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 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.
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(), getTimeFunctions() 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 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 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 (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.
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 PreparedStatement/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 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

Fix 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.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 exccescent 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 ‘---’, 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 "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.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 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 for support MARS in future versions.

Support for MARS was added.
Data larger as 200 MB 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 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_FORWARDONLY-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 &#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.<br/>

<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.<br/>

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<br/>
[xyz2005]Could not find server &apos;#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot; <br/>

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

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

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

Connection property resultSetType added.<br/>

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.<br/>

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

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

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

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

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

The call ResultSet.findColumn( &quot; &quot;) 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."</div>

Some error handling was added for connecting to prevent problems in stress conditions.</div>

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

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

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

Connection property resultSetType was not used for PreparedStatement and CallableStatement.</div>

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().</div>

Classes DTCDataSource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.</div>

Empty strings in CacheRowSet changed to null values after serialization.</div>

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.</div>

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.
- 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.

<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 inetda7a mode.</div></li>
<li class="level1"><div class="li"> Added JDBC URL 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>

<ul>
<li class="level1"><div class="li"> A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetda6 and inetda7a).</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>

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>
<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>

- 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.
- Added 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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Anders Moeller
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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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4.247 osgi.resource.locator 1.0.1

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</module>

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    description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>

    <jar name='bsh.jar' />
</module>

<module name='byteman'

    licenseType='Apache-2.0 (dual license, but LGPL may be chosen)'
    version='2.0b5'
    projectHome='http://www.byteman.org'
    description='byteman is a framework for dynamic code manipulation and reflection, allowing runtime manipulation of class files and bytecodes.'

    <jar name='byteman.jar' />
</module>
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JUnit test library (junit-3.8.1.jar)

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4.255 Postgres v8.0.3 8.0.3

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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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JUnit test library (junit-3.8.1.jar)

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4.261 saaj-api 1.3.4

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4.268 slf4j-api 1.7.7

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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.

Please note that all methods in this class are static.

@authors Ceki G"ulc"ue;

\*/

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);
    }

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

4.269 slf4j-jdk14 1.7.6
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4.270 slf4j-log4j12 1.4.2
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 */

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 [Logger interface](http://logging.apache.org/log4j/docs/api/org/apache/log4j/Level.html).
* Note that the logging levels mentioned in this class refer to those defined in the `org.apache.log4j.Level` class.

@authors Ceki Gülcü

```java
public final class Log4jLoggerAdapter extends MarkerIgnoringBase implements LocationAwareLogger {
    final org.apache.log4j.Logger logger;

    // 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();
    }

    public boolean isTraceEnabled() {
        return logger.isTraceEnabled();
    }

    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.
 *
 * 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);
    }
}
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 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.
 *<p>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.
 *<p>This form avoids superfluous object creation when the logger
 * is disabled for the WARN level. </p>
 *
 * @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.
 *<p>This form avoids superfluous object creation when the logger
 * is disabled for the WARN level. </p>
 *
 * @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.
 *<p>This form avoids superfluous object creation when the logger
 * is disabled for the WARN level. </p>
 *
/**
 * 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>
 */
public void error(String format, Object[] argArray) {
    if (logger.isEnabledFor(Level.WARN)) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.WARN, msgStr, null);
    }
}
```java
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);
    }
}

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);
    }
}

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);
}

4.271 slf4j-simple 1.5.6
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4.272 snappy-java 1.1.1.6

4.273 solr-solrj 4.1.0

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tax2 extension API (for basic Stax API, JSR-173)

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4.291 TestNG 6.8.8

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<thirdparty-licenses>
  <module name='ant'
    licenseType='apache-2.0'
    version='1.8.2'
    projectHome='http://ant.apache.org/
    description='ANT (compile time)'>
    <jar name='ant.jar' />
  </module>

  <module name='ant-launcher'
    licenseType='apache-2.0'
    version='1.8.2'
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    description='ANT launcher (compile time)'>
    <jar name='ant-launcher.jar' />
  </module>

  <module name='ant-junit'
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  <module name='BND'
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    version='1.44.0'
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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'
<module name='bouncycastle'
licenseType='gpl (dual license, but GPL may be chosen)'
version='2.0b5'
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='2.1.0'
projectHome='http://www.jboss.org/byteman'
description='Annotations of JCIP'>
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</module>

<module name='byteman-bmunit'
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description='Annotations of JCIP'>
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</module>

<module name='byteman-install'
licenseType='LGPL 2.1'
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description='Annotations of JCIP'>
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</module>

<module name='byteman-submit'
licenseType='LGPL 2.1'
version='2.1.0'
projectHome='http://www.jboss.org/byteman'
description='Annotations of JCIP'>
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</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'
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    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'>
  <jar name='testng-6.8.jar' />
</module>

<module name='xalan'
    licenseType='apache-2.0'
    version='2.4.D1'
    projectHome='http://xml.apache.org/xalan-j/
    description='Xalan-Java is an XSLT processor for transforming XML documents. Used to generate HTML test reports from XML (testing time)'>
  <jar name='xalan.jar' />
</module>
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4.308 xercesImpl 1.3.1
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JUnit test library (junit-3.8.1.jar)

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JUnit test library (junit-3.8.1.jar)

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5.6 angular 1.4.7

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5.7 angular-bootstrap 0.14.3

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5.8 angular-load 0.4.0

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5.9 angular-messages 1.4.7

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5.10 angular-route 1.4.8
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5.11 angular-sanitize 1.4.7
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5.19 async-js 0.7.7

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5.20 autoHeight 1.0.0

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5.21 AutoMapper 4.2.1

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5.45 dimple 2.1.3

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5.47 eclipse-collections-api 8.0.0

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package com.sun.el.lang;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.util.HashMap;
import java.util.Map;
import javax.el.ValueExpression;
import javax.el.VariableMapper;

public class VariableMapperImpl extends VariableMapper implements Externalizable {

private static final long serialVersionUID = 1L;

private Map vars = new HashMap();

public VariableMapperImpl() {
    super();
}

public ValueExpression resolveVariable(String variable) {
    return (ValueExpression) this.vars.get(variable);
}

public ValueExpression setVariable(String variable,
    ValueExpression expression) {
    return (ValueExpression) this.vars.put(variable, expression);
public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
    this.vars = (Map) in.readObject();
}

public void writeExternal(ObjectOutput out) throws IOException {
    out.writeObject(this.vars);
}

package com.sun.el.lang;

import java.io.Externalizable;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.lang.reflect.Method;
import java.util.HashMap;
import java.util.Map;
import javax.el.FunctionMapper;
import com.sun.el.util.ReflectionUtil;

/**
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: kchung $
 */
public class FunctionMapperImpl extends FunctionMapper implements Externalizable {

private static final long serialVersionUID = 1L;

protected Map functions = null;

/**
 * (non-Javadoc)
 * @see javax.el.FunctionMapper#resolveFunction(java.lang.String,
 *      java.lang.String)
 */
public Method resolveFunction(String prefix, String localName) {
if (this.functions != null) {
    Function f = (Function) this.functions.get(prefix + ":" + localName);
    return f.getMethod();
}
return null;
}

public void addFunction(String prefix, String localName, Method m) {
if (this.functions == null) {
    this.functions = new HashMap();
}  
Function f = new Function(prefix, localName, m);
    synchronized (this) {
        this.functions.put(prefix+":"+localName, f);
    }
}

/**
 * (non-Javadoc)
 */
*/
*/
*/

public Method resolveFunction(String prefix, String localName) {
if (this.functions != null) {
    Function f = (Function) this.functions.get(prefix + ":" + localName);
    return f.getMethod();
}
return null;
}

public void addFunction(String prefix, String localName, Method m) {
if (this.functions == null) {
    this.functions = new HashMap();
}  
Function f = new Function(prefix, localName, m);
    synchronized (this) {
        this.functions.put(prefix+":"+localName, f);
    }
}

/**
 * (non-Javadoc)
 */
public void writeExternal(ObjectOutput out) throws IOException {
    out.writeObject(this.functions);
}

public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
    this.functions = (Map) in.readObject();
}

public static class Function implements Externalizable {

    protected transient Method m;
    protected String owner;
    protected String name;
    protected String[] types;
    protected String prefix;
    protected String localName;

    /**
     *
     */
    public Function(String prefix, String localName, Method m) {
        if (localName == null) {
            throw new NullPointerException("LocalName cannot be null");
        }
        if (m == null) {
            throw new NullPointerException("Method cannot be null");
        }
        this.prefix = prefix;
        this.localName = localName;
        this.m = m;
    }

    public Function() {
        // for serialization
    }

    /**
     *
     */
    * (non-Javadoc)
    * @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
    */
    public void writeExternal(ObjectOutput out) throws IOException {
        out.writeObject(this.functions);
    }

    /**
     *
     */
    * (non-Javadoc)
    * @see java.io.Externalizable#readExternal(java.io.ObjectInput)
    */
    public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
        this.functions = (Map) in.readObject();
    }

    public static class Function implements Externalizable {

        protected transient Method m;
        protected String owner;
        protected String name;
        protected String[] types;
        protected String prefix;
        protected String localName;

        /**
         *
         */
        public Function(String prefix, String localName, Method m) {
            if (localName == null) {
                throw new NullPointerException("LocalName cannot be null");
            }
            if (m == null) {
                throw new NullPointerException("Method cannot be null");
            }
            this.prefix = prefix;
            this.localName = localName;
            this.m = m;
        }

        public Function() {
            // for serialization
        }

        /**
         *
         */
        * (non-Javadoc)
        * @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
        */
        public void writeExternal(ObjectOutput out) throws IOException {
            out.writeObject(this.functions);
        }

        /**
         *
         */
        * (non-Javadoc)
        * @see java.io.Externalizable#readExternal(java.io.ObjectInput)
        */
        public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
            this.functions = (Map) in.readObject();
        }

    }
public void writeExternal(ObjectOutput out) throws IOException {
    out.writeUTF((this.prefix != null) ? this.prefix : "");
    out.writeUTF(this.localName);

    if (this.owner != null) {
        out.writeUTF(this.owner);
    } else {
        out.writeUTF(this.m.getDeclaringClass().getName());
    }

    if (this.name != null) {
        out.writeUTF(this.name);
    } else {
        out.writeUTF(this.m.getName());
    }

    if (this.types != null) {
        out.writeObject(this.types);
    } else {
        out.writeObject(ReflectionUtil.toTypeNameArray(this.m.getParameterTypes()));
    }
}

/*
  (non-Javadoc)

  @see java.io.Externalizable#readExternal(java.io.ObjectInput)
*/

public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
    this.prefix = in.readUTF();
    if ("".equals(this.prefix)) this.prefix = null;
    this.localName = in.readUTF();
    this.owner = in.readUTF();
    this.name = in.readUTF();
    this.types = (String[]) in.readObject();
}

public Method getMethod() {
    if (this.m == null) {
        try {
            Class t = Class.forName(this.owner, false,
                    Thread.currentThread().getContextClassLoader());
            Class[] p = ReflectionUtil.toTypeArray(this.types);
            this.m = t.getMethod(this.name, p);
        } catch (Exception e) {
            
        }
    }
}
public boolean matches(String prefix, String localName) {
    if (this.prefix != null) {
        if (prefix == null) return false;
        if (!this.prefix.equals(prefix)) return false;
    }
    return this.localName.equals(localName);
}

/* (non-Javadoc)
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj instanceof Function) {
        return this.hashCode() == obj.hashCode();
    }
    return false;
}

/* (non-Javadoc)
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return (this.prefix + this.localName).hashCode();
}

} /*
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 */
package com.sun.el.parser;

import javax.el.ELException;
import javax.el.MethodInfo;
import javax.el.ValueReference;
import javax.el.PropertyNotWritableException;

import com.sun.el.lang.ELSupport;
import com.sun.el.lang.EvaluationContext;
import com.sun.el.util.MessageFactory;

/**
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: kchung $
 */
public abstract class SimpleNode extends ELSupport implements Node {
    protected Node parent;

    protected Node[] children;

    protected int id;

    protected String image;

    public SimpleNode(int i) {
        id = i;
    }
}
public void jjtOpen() {
}

public void jjtClose() {
}

public void jjtSetParent(Node n) {
    parent = n;
}

public Node jjtGetParent() {
    return parent;
}

public void jjtAddChild(Node n, int i) {
    if (children == null) {
        children = new Node[i + 1];
    } else if (i >= children.length) {
        Node c[] = new Node[i + 1];
        System.arraycopy(children, 0, c, 0, children.length);
        children = c;
    }
    children[i] = n;
}

public Node jjtGetChild(int i) {
    return children[i];
}

public int jjtGetNumChildren() {
    return (children == null) ? 0 : children.length;
}

/*
 * You can override these two methods in subclasses of SimpleNode to
 * customize the way the node appears when the tree is dumped. If your
 * output uses more than one line you should override toString(String),
 * otherwise overriding toString() is probably all you need to do.
 */

public String toString() {
    if (this.image != null) {
        return ELParserTreeConstants.jjtNodeName[id] + "[" + this.image
              + "]";
    }
    return ELParserTreeConstants.jjtNodeName[id];
}
public String toString(String prefix) {
    return prefix + toString();
}
/*
 * Override this method if you want to customize how the node dumps out its
 * children.
 */
public void dump(String prefix) {
    System.out.println(toString(prefix));
    if (children != null) {
        for (int i = 0; i < children.length; ++i) {
            SimpleNode n = (SimpleNode) children[i];
            if (n != null) {
                n.dump(prefix + " ");
            }
        }
    }
}
public String getImage() {
    return image;
}
public void setImage(String image) {
    this.image = image;
}
public Class getType(EvaluationContext ctx) throws ELException {
    throw new UnsupportedOperationException();
}
public Object getValue(EvaluationContext ctx) throws ELException {
    throw new UnsupportedOperationException();
}
public ValueReference getValueReference(EvaluationContext ctx) throws ELException {
    return null;
}
public boolean isReadOnly(EvaluationContext ctx) throws ELException {
    return true;
}
public void setValue(EvaluationContext ctx, Object value) throws ELException {
    throw new PropertyNotWritableException(MessageFactory.get("error.syntax.set"));
}

public void accept(NodeVisitor visitor) throws ELException {
    visitor.visit(this);
    if (this.children != null && this.children.length > 0) {
        for (int i = 0; i < this.children.length; i++) {
            this.children[i].accept(visitor);
        }
    }
}

public Object invoke(EvaluationContext ctx, Class[] paramTypes, Object[] paramValues) throws ELException {
    throw new UnsupportedOperationException();
}

public MethodInfo getMethodInfo(EvaluationContext ctx, Class[] paramTypes) throws ELException {
    throw new UnsupportedOperationException();
}

@Override
public boolean equals(Object node) {
    if (! (node instanceof SimpleNode)) {
        return false;
    }
    SimpleNode n = (SimpleNode) node;
    if (this.id != n.id) {
        return false;
    }
    if (this.children == null && n.children == null) {
        if (this.image == null) {
            return n.image == null;
        }
        return this.image.equals(n.image);
    }
    if (this.children == null || n.children == null) {
        // One is null and the other is non-null
        return false;
    }
    if (this.children.length != n.children.length) {
        return false;
    }
    if (this.children.length == 0) {
        if (this.image == null) {
            if (this.image == null) {
                return true;
            }
        }
    }
}

@Override
public boolean equals(Object node) {
    if (! (node instanceof SimpleNode)) {
        return false;
    }
    SimpleNode n = (SimpleNode) node;
    if (this.id != n.id) {
        return false;
    }
    if (this.children == null && n.children == null) {
        if (this.image == null) {
            return n.image == null;
        }
        return this.image.equals(n.image);
    }
    if (this.children == null || n.children == null) {
        // One is null and the other is non-null
        return false;
    }
    if (this.children.length != n.children.length) {
        return false;
    }
    if (this.children.length == 0) {
        if (this.image == null) {
            return true;
        }
    }
}
return n.image == null;
}
return this.image.equals(n.image);
}
for (int i = 0; i < this.children.length; i++) {
if (!this.children[i].equals(n.children[i])) {
    return false;
}
}
return true;
}

public boolean isParametersProvided() {
    return false;
}

@Override
public int hashCode() {
    if (this.children == null || this.children.length == 0) {
        if (this.image != null) {
            return this.image.hashCode();
        }
        return this.id;
    }
    int h = 0;
    for (int i = this.children.length - 1; i >= 0; i--) {
        h = h + h + h + this.children[i].hashCode();
    }
    h = h + h + h + id;
    return h;
}
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*/

package com.sun.el;

import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ELResolver;
import javax.el.Expression;
import javax.el.ExpressionFactory;
import javax.el.FunctionMapper;
import javax.el.PropertyNotFoundException;
import javax.el.PropertyNotWritableException;
import javax.el.ValueExpression;
import javax.el.VariableMapper;
import javax.el.ValueReference;

import com.sun.el.lang.ELSupport;
import com.sun.el.lang.EvaluationContext;
import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.parser.AstLiteralExpression;
import com.sun.el.parser.Node;
import com.sun.el.util.ReflectionUtil;

/**
 * An <code>Expression</code> that can get or set a value.
 */
In previous incarnations of this API, expressions could only be read. `ValueExpression` objects can now be used both to retrieve a value and to set a value. Expressions that can have a value set on them are referred to as l-value expressions. Those that cannot are referred to as r-value expressions. Not all r-value expressions can be used as l-value expressions (e.g. `"${1+1}"`) or `"${firstName} ${lastName}"`). See the EL Specification for details. Expressions that cannot be used as l-values must always return `true` from `isReadOnly()`.

The `ExpressionFactory#createValueExpression` method can be used to parse an expression string and return a concrete instance of `ValueExpression` that encapsulates the parsed expression. The `FunctionMapper` is used at parse time, not evaluation time, so one is not needed to evaluate an expression using this class. However, the `ELContext` is needed at evaluation time.

The `getValue`, `setValue`, `isReadOnly` and `getType` methods will evaluate the expression each time they are called. The `ELResolver` in the `ExpressionContext` is used to resolve the top-level variables and to determine the behavior of the `.` and `[]` operators. For any of the four methods, the `ELResolver#getValue` method is used to resolve all properties up to but excluding the last one. This provides the `base` object. At the last resolution, the `ValueExpression` will call the corresponding `ELResolver#getValue`, `ELResolver#setValue`, `isReadOnly` or `getType` method, depending on which was called on the `ValueExpression`.

See the notes about comparison, serialization and immutability in the `Expression` javadocs.

@see javax.el.ELResolver
@see javax.el.Expression
@see javax.el.ExpressionFactory
@see javax.el.ValueExpression

@author Jacob Hookom [jacob@hookom.net]
@version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: dochez$

```java
public final class ValueExpressionImpl extends ValueExpression implements Externalizable {
```
private Class expectedType;

private String expr;

private FunctionMapper fnMapper;

private VariableMapper varMapper;

private transient Node node;

public ValueExpressionImpl() {
}

/**
 *
 */
public ValueExpressionImpl(String expr, Node node, FunctionMapper fnMapper,
 VariableMapper varMapper, Class expectedType) {
    this.expr = expr;
    this.node = node;
    this.fnMapper = fnMapper;
    this.varMapper = varMapper;
    this.expectedType = expectedType;
}

/**
 * (non-Javadoc)
 *
 */
public boolean equals(Object obj) {
    if (obj instanceof ValueExpressionImpl) {
        ValueExpressionImpl v = (ValueExpressionImpl) obj;
        return getNode().equals(v.getNode());
    }
    return false;
}

/**
 * (non-Javadoc)
 *
 */
public Class getExpectedType() {
    return this.expectedType;
}
/**
 * Returns the type the result of the expression will be coerced to after
 * evaluation.
 *
 * @return the <code>expectedType</code> passed to the
 * <code>ExpressionFactory.createValue_expression</code> method
 * that created this <code>ValueExpression</code>.
 *
 * @see javax.el.Expression#createValueExpression()
 */
public String getExpressionString() {
    return this.expr;
}

/**
 * @return
 * @throws ELException
 */
private Node getNode() throws ELException {
    if (this.node == null) {
        this.node = ExpressionBuilder.createNode(this.expr);
    }
    return this.node;
}

/**
 * (non-Javadoc)
 *
 * @see javax.el.ValueExpression#getType(javax.el.ELContext)
 */
public Class getType(ELContext context) throws PropertyNotFoundException,
    ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return this.getNode().getType(ctx);
}

/**
 * (non-Javadoc)
 *
 * @see javax.el.ValueExpression#getValueReference(javax.el.ELContext)
 */
public ValueReference getValueReference(ELContext context)
    throws PropertyNotFoundException, ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
        this.varMapper);
    return this.getNode().getValueReference(ctx);
}
/*
 * (non-Javadoc)
 * @see javax.el.ValueExpression#getValue(javax.el.ELContext)
 */
public Object getValue(ELContext context) throws PropertyNotFoundException, ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper, this.varMapper);
    Object value = this.getNode().getValue(ctx);
    if (this.expectedType != null) {
        try {
            value = ELSupport.coerceToType(value, this.expectedType);
        } catch (IllegalArgumentException ex) {
            throw new ELException(ex);
        }
    }
    return value;
}

/*
 * (non-Javadoc)
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return getNode().hashCode();
}

/*
 * (non-Javadoc)
 * @see javax.el.ValueExpression#isLiteralText()
 */
public boolean isLiteralText() {
    try {
        return this.getNode() instanceof AstLiteralExpression;
    } catch (ELException ele) {
        return false;
    }
}

/*
 * (non-Javadoc)
 * @see javax.el.ValueExpression#isReadOnly(javax.el.ELContext)
 */
public boolean isReadOnly(ELContext context)
throws PropertyNotFoundException, ELException {
EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
this.varMapper);
return this.getNode().isReadOnly(ctx);
}
public void readExternal(ObjectInput in) throws IOException,
ClassNotFoundException {
this.expr = in.readUTF();
String type = in.readUTF();
if (!"".equals(type)) {
this.expectedType = ReflectionUtil.forName(type);
}
this.fnMapper = (FunctionMapper) in.readObject();
this.varMapper = (VariableMapper) in.readObject();
}
/*
* (non-Javadoc)
*
* @see javax.el.ValueExpression#setValue(javax.el.ELContext,
*
java.lang.Object)
*/
public void setValue(ELContext context, Object value)
throws PropertyNotFoundException, PropertyNotWritableException,
ELException {
EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
this.varMapper);
this.getNode().setValue(ctx, value);
}
public void writeExternal(ObjectOutput out) throws IOException {
out.writeUTF(this.expr);
out.writeUTF((this.expectedType != null) ? this.expectedType.getName()
: "");
out.writeObject(this.fnMapper);
out.writeObject(this.varMapper);
}
public String toString() {
return "ValueExpression["+this.expr+"]";
}
}
/*
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import javax.el.PropertyNotFoundException;
import javax.el.VariableMapper;

import com.sun.el.lang.ELSupport;
import com.sun.el.lang.EvaluationContext;
import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.util.ReflectionUtil;

/**
 * An <code>Expression</code> that refers to a method on an object.
 *
 * <p>The {@link MethodExpression#setMethodInfo} method can be used to parse an expression string and return a concrete instance of <code>MethodExpression</code> that encapsulates the parsed expression. The {@link FunctionMapper} is used at parse time, not evaluation time, so one is not needed to evaluate an expression using this class. However, the {@link ELContext} is needed at evaluation time.<p>
 *
 * The {@link #getMethodInfo} and {@link #invoke} methods will evaluate the expression each time they are called. The { @link ELResolver} in the <code>ELContext</code> is used to resolve the top-level variables and to determine the behavior of the <code>.<code> operator. For any of the two methods, the { @link ELResolver#getValue} method is used to resolve all properties up to but excluding the last one. This provides the <code>base</code> object on which the method appears. If the <code>base</code> object is null, a <code>NullPointerException</code> must be thrown. At the last resolution, which provides the name of the method to be found. A method matching the name and expected parameters provided at parse time is found and it is either queried or invoked (depending on the method called on this <code>MethodExpression</code>).<p>
 *
 * See the notes about comparison, serialization and immutability in the { @link Expression} javadocs.
 *
 * @see javax.el.ELResolver
 * @see javax.el.Expression
 * @see javax.el.ExpressionFactory
 * @see javax.el.MethodExpression
 *
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $$DateTime: 2001/06/26 08:45:09 $$Author: kchung $*/

public final class MethodExpressionImpl extends MethodExpression implements Externalizable {

private Class expectedType;
private String expr;
private FunctionMapper fnMapper;
private VariableMapper varMapper;
private transient Node node;
private Class[] paramTypes;

/**
 * Determines whether the specified object is equal to this
 * <code>Expression</code>.
 * *
 * <p>
 * The result is <code>true</code> if and only if the argument is not
 * <code>null</code>, is an <code>Expression</code> object that is the
 * of the same type (<code>ValueExpression</code> or
 * <code>MethodExpression</code>), and has an identical parsed
 * representation.
 */
public MethodExpressionImpl(String expr, Node node,
     FunctionMapper fnMapper, VariableMapper varMapper,
     Class expectedType, Class[] paramTypes) {
    super();
    this.expr = expr;
    this.node = node;
    this.fnMapper = fnMapper;
    this.varMapper = varMapper;
    this.expectedType = expectedType;
    this.paramTypes = paramTypes;
}

/**
 * @param expr
 * @param node
 * @param fnMapper
 * @param expectedType
 * @param paramTypes
 */
public MethodExpressionImpl() {
    super();
}
* Note that two expressions can be equal if their expression Strings are
different. For example, \code${fn1:foo()}\endcode and
\code${fn2:foo()}\endcode are equal if their corresponding
\code FunctionMapper\endcode's mapped \code fn1:foo\endcode and
\code fn2:foo\endcode to the same method.
* </p>

* @param obj
*    the \code Object\endcode to test for equality.
* @return \code true\endcode if \code obj\endcode equals this
*    \code Expression\endcode; \code false\endcode otherwise.
* @see java.util.Hashtable
* @see java.lang.Object#equals(java.lang.Object)
*/
public boolean equals(Object obj) {
    if (obj instanceof MethodExpressionImpl) {
        MethodExpressionImpl me = (MethodExpressionImpl) obj;
        return getNode().equals(me.getNode());
    }
    return false;
}

/**
* Returns the original String used to create this \code Expression\endcode,
* unmodified.
* *
* @return The original expression String.
* @see javax.el.Expression#getExpressionString()
*/
public String getExpressionString() {
    return this.expr;
/**
 * Evaluates the expression relative to the provided context, and returns
 * information about the actual referenced method.
 *
 * @param context
 * The context of this evaluation
 * @return an instance of <code> MethodInfo </code> containing information
 * about the method the expression evaluated to.
 * @throws NullPointerException
 * if context is <code>null</code> or the base object is
 * <code>null</code> on the last resolution.
 * @throws PropertyNotFoundException
 * if one of the property resolutions failed because a specified
 * variable or property does not exist or is not readable.
 * @throws MethodNotFoundException
 * if no suitable method can be found.
 * @throws ELException
 * if an exception was thrown while performing property or
 * variable resolution. The thrown exception must be included as
 * the cause property of this exception, if available.
 * @see javax.el.MethodExpression#getMethodInfo(javax.el.ELContext)
 */

public MethodInfo getMethodInfo(ELContext context)
throws PropertyNotFoundException, MethodNotFoundException,
ELException {
    Node n = this.getNode();
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
    this.varMapper);
    return n.getMethodInfo(ctx, this.paramTypes);
}

/**
 * @return
 * @throws ELException
 */

private Node getNode() throws ELException {
    if (this.node == null) {
        this.node = ExpressionBuilder.createNode(this.expr);
    }
    return this.node;
}

/**
 * Returns the hash code for this <code>Expression</code>.
 * @return
 * <p>
* See the note in the [@link equals] method on how two expressions can be equal if their expression Strings are different. Recall that if two objects are equal according to the <code>equals(Object)</code> method, then calling the <code>hashCode</code> method on each of the two objects must produce the same integer result. Implementations must take special note and implement <code>hashCode</code> correctly.

* </p>

* @return The hash code for this <code>Expression</code>.
* @see equals
* @see java.util.Hashtable
* @see java.lang.Object#hashCode()
* /
public int hashCode() {
    return getNode().hashCode();
}

/**
 * Evaluates the expression relative to the provided context, invokes the method that was found using the supplied parameters, and returns the result of the method invocation.
 *
 * @param context The context of this evaluation.
 * @param params The parameters to pass to the method, or <code>null</code> if no parameters.
 * @return the result of the method invocation (<code>null</code> if the method has a <code>void</code> return type).
 * @throws NullPointerException if context is <code>null</code> or the base object is <code>null</code> on the last resolution.
 * @throws PropertyNotFoundException if one of the property resolutions failed because a specified variable or property does not exist or is not readable.
 * @throws MethodNotFoundException if no suitable method can be found.
 * @throws ELException if an exception was thrown while performing property or variable resolution. The thrown exception must be included as the cause property of this exception, if available. If the exception thrown is an <code>InvocationTargetException</code>, extract its <code>cause</code> and pass it to the <code>ELException</code> constructor.
 * @see javax.el.MethodExpression#invoke(javax.el.ELContext, java.lang.Object[])
 */
public Object invoke(ELContext context, Object[] params)
throws PropertyNotFoundException, MethodNotFoundException, ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper, this.varMapper);
    return this.getNode().invoke(ctx, this.paramTypes, params);
}

/*
 * (non-Javadoc)
 * @see java.io.Externalizable#readExternal(java.io.ObjectInput)
 */
public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
    this.expr = in.readUTF();
    String type = in.readUTF();
    if (!"".equals(type)) {
        this.expectedType = ReflectionUtil.forName(type);
    }
    this.paramTypes = ReflectionUtil.toTypeArray(((String[]) in.readObject()));
    this.fnMapper = (FunctionMapper) in.readObject();
    this.varMapper = (VariableMapper) in.readObject();
}

/*
 * (non-Javadoc)
 * @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
 */
public void writeExternal(ObjectOutput out) throws IOException {
    out.writeUTF(this.expr);
    out.writeUTF((this.expectedType != null) ? this.expectedType.getName() : "");
    out.writeObject(ReflectionUtil.toTypeNameArray(this.paramTypes));
    out.writeObject(this.fnMapper);
    out.writeObject(this.varMapper);
}

public boolean isLiteralText() {
    return false;
}

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*/

package com.sun.el;

import javax.el.ELContext;
import javax.el.EXception;
import javax.el.ExpressionFactory;
import javax.el.MethodExpression;
import javax.el.ValueExpression;

import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.lang.ELSupport;
import com.sun.el.util.MessageFactory;

/**
 * @see javax.el.ExpressionFactory
 *
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $Date: 2001/06/26 08:45:09 $Author: kchung $
 */
public class ExpressionFactoryImpl extends ExpressionFactory {

    /**
     *
     */
    public ExpressionFactoryImpl() {
        super();
    }

    public Object coerceToType(Object obj, Class type) {
        Object ret;
        try {
            ret = ELSupport.coerceToType(obj, type);
        } catch (IllegalArgumentException ex) {
            throw new ELException(ex);
        }
        return ret;
    }

    public MethodExpression createMethodExpression(ELContext context,
            String expression, Class expectedReturnType,
            Class[] expectedParamTypes) {
        if (expectedParamTypes == null) {
            throw new NullPointerException(MessageFactory
                    .get("error.method.nullParms");
        }
        ExpressionBuilder builder = new ExpressionBuilder(expression, context);
        return builder.createMethodExpression(expectedReturnType,
                expectedParamTypes);
    }

    public ValueExpression createValueExpression(ELContext context,
            String expression, Class expectedType) {
        if (expectedType == null) {
            throw new NullPointerException(MessageFactory
                    .get("error.value.expectedType");
        }
        ExpressionBuilder builder = new ExpressionBuilder(expression, context);
        return builder.createValueExpression(expectedType);
    }

    public ValueExpression createValueExpression(Object instance,
            Class expectedType) {
        if (expectedType == null) {
            throw new NullPointerException(MessageFactory
                    .get("error.value.expectedType");
        }
        return new ValueExpressionLiteral(instance, expectedType);
5.49 ELMAH 1.2

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5.77 jQuery 1.8.3

5.78 jQuery-1.9.1 1.9.1

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5.94 jquery.datepicker 2.1.1

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5.95 Jquery.datetimeentry 1.0

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5.100 jQuery.mmenu-master 4.7.5

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5.101 jquery.mousewheel 3.0.6

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5.102 Jquery.multiselect 1.12

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5.103 jquery.tinysort 1.0.4

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Tue Oct 24 12:28:44 CDT 2006

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5.117 lodash 4.6.1

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5.118 log4j 1.2.17

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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 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 4;
 }
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{font-family:"\@MS Mincho";
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5.128 Microsoft.Bcl.Build 1.0.21

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{\fonvbidi \froman\vcharet0\vprq2\vpanose 02040503050406030204\ cambriamath; }{\fonvbidi \froman\vcharet0\vprq2\vpanose 0000000000000000000\trebuchetsmall; }{\fonvbidi \froman\vcharet0\vprq2\vpanose 0000000000000000000\tahoma; }{\fonvbidi \froman\vcharet134\vprq2\vpanose 02010600030101010101\simsun; }{\fonvbidi \froman\vcharet128\vprq1\vpanose 02020609040205080304\msmincho; }
{\fonvbidi \froman\vcharet0\vprq2\vpanose 02020603050405020304\timesnewroman; }{\fonvbidi \froman\vcharet0\vprq2\vpanose 02020603050405020304\timesnewroman; }
```
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13943
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\(13959\)
5.129 Microsoft.Net.Http 2.2.28

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<html>
<head>
<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
<meta name=Generator content="Microsoft Word 14 (filtered)">
<style>
/* Font Definitions */
@font-face
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@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 1 1;}
@font-face
{font-family:SimSun;
  panose-1:2 1 6 0 3 1 1 1 1 1;}
@font-face
{font-family:Tahoma;
  panose-1:2 1 1 6 4 3 5 4 4 2 4;}
@font-face
{font-family:"Trebuchet MS";
  panose-1:2 1 1 6 3 2 2 2 2 2 4;}
@font-face
</style>
</head>
<body>
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5.134 modernizr-2.6.2 2.6.2

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5.136 moment-2.7.0 2.7

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5.138 mongo-java-driver 2.11.4

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5.149 OpenAjax_Hub 2.0.7

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5.151 pellepim-jstimezonedetect 1.0.5

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5.153 protobuf-net 2.0

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This binary was built using MinGW, but the output is the same regardless of the C++ compiler used.

You will still need to download the source code package in order to obtain the Java or Python runtime libraries. Get it from:


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5.161 requirejs 2.1.14

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5.162 Respond.js 1.3.0

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5.163 rrule 2.2.0
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./rrule.js and ./test/tests.js is based on python-dateutil. LICENCE:

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5.164 script.aculo.us 1.7.0

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5.165 scriptaculous-js-1.9.0 1.9.0

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5.166 shepherd-0.7.1 0.7.1

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5.167 Spin.js 1.3.2

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5.169 splitter 1.63

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5.170 sqljdbc4 4.0

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5.172 System.IdentityModel.Token.Jwt 4.0.0

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5.173 T4 Toolbox 1.0

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5.174 ui-calendar 1.0.0

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5.175 ui-select 0.13.2

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5.176 validation-api 1.1.0.Final

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5.177 validation.js 1.5.4.1
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<meta name=Generator content="Microsoft Word 14 (filtered)">
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{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 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 4;}
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{font-family: "Trebuchet MS";
 panose-1: 2 1 1 6 3 2 2 2 2 4;}
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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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6.31 Apache Geronimo Specs 11.0

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databinding-axiom
databinding-jaxb
databinding-json
databinding-sdo
databinding-sdo-axiom
databinding-xmlbeans
interface-wsdl-xml

Include the ipo.xsd and address.xsd information from the XML Schema Primer (http://www.w3.org/TR/2004/PER-xmlschema-0-20040318/) combined into the file ipo.xsd and extended with UK postcode structures.

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1.4

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6.82 Apache Tuscany SCA Policy XML Model

1.4

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6.154 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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6.165 ganymed-ssh2 build250

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

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

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

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6.177 Hibernate/c3p0 Integration 4.3.6.Final

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6.185 ICU4J 2.6.1

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6.186 inflector 0.7.0

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6.197 jakarta-taglibs 1.1.2

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6.201 Java Architecture for XML Binding 2.2.3

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6.204 Java Persistence API, Version 2.1
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6.205 Java Transaction API 1.0.0.Final

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1.1

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6.214 JAX-RS provider for JSON content type

1.9.2

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== Jackson Json-processor ==

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

http://jackson.codehaus.org/

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

=== Functionality ===

Jackson implements functionality for:

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

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

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6.215 JAX-WS API 2.2.8 :Maintenance

Release 1

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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 <code>Comment</code> */
  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.
   */
  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);
    }
    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * @link org.jdom.output.XMLOutputter#outputString(Comment) should be used.
 * @return <code>String</code> - information about the
 * <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
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6.262 junit 4.11

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6.266 Logback Core Module 1.1.2

6.266.1 Available under license:

cat logback-core-1.1.2-sources/ch/qos/logback/core/LayoutBase.java
/**
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 * 
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6.277 mousetrap 1.5.3

6.278 MXP1: Xml Pull Parser 3rd Edition

(XPP3) 1.1.4c

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6.283 org.apache.tools.ant 1.7.0

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6.284 org.osgi.core 4.1.0

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6.294 Rhino 1.6R2

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Version 1.1

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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
```
This class is essentially implemented as a wrapper around an
{@link IMarkerFactory} instance bound at compile time.

Please note that all methods in this class are static.

@code
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
     * @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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6.315 spring-asm 3.0.5.RELEASE

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tax2 extension API (for basic Stax API, JSR-173)

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6.327 Streaming API for XML 1.0-2
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6.328 Streaming API for XML (STAX API 1.0)

1.0.1

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6.355 xom 1.0

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XOM is a dual streaming/tree-based API for processing XML with Java.

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