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*/

package org.acegisecurity;

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

public abstract class AbstractAuthenticationManager implements AuthenticationManager {

    //~ Instance fields
    =====================================================================================================================

    private boolean clearExtraInformation = true;

    //~ Methods
    =====================================================================================================================

    /**
     * An implementation of the authenticate method that calls the abstract method
     * doAuthentication to do its work. If doAuthenticate throws an AuthenticationException then the exception is populated
     * with the failed Authentication object that failed.
     *
     * @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>
 * <p>The contract for this method is documented in the { @link AuthenticationManager#authenticate(Authentication) }.</p>
 * 
 * @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;
}
}
1.3 acegisecurity 1.0.7

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-- activemq-web

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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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# $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"
#              xalan:content-handler="MyContentHandler"/>
# ...
# Note that the colon after the protocol needs to be escaped.
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1.18 angular 1.6.5
1.19 angular-animate 1.6.5

1.20 angular-aria 1.6.5

1.21 angular-messages 1.6.5

1.22 angular-sanitize 1.6.5

1.23 angular-ui-grid 3.0.7

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1.24 angular-ui-router 0.2.15

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1.25 AngularJS Toaster 2.0.0

1.26 ANTLR 2.7.6

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1.27 ANTLR 4 Runtime 4.3 :January 15, 2014

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1.28 AntLR Parser Generator 3.0.1

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1.29 Apache CLI interface 1.2

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

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

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

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

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

New Features:

- **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.
- **Added missing tags in Javadoc comments**.
- **General Javadoc improvements**.

Changes:

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- **The Board recommendation to remove Javadoc author tags has been implemented.** All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team
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compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
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lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
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1.46 api-check 7.5.5

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*/
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/**
* 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>.
*
* @author Eric Bruneton
* @author Eugene Kuleshov
*/
public interface AnnotationVisitor {

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

/**
* Visits a nested annotation value of the annotation.
*
* @param name the value name.
* @param desc the class descriptor of the nested annotation class.
* @return a visitor to visit the actual nested annotation value, or
*        <tt>null</tt> if this visitor is not interested in visiting
*        this nested annotation. <i>The nested annotation value must be
*        fully visited before calling other methods on this annotation
*        visitor</i>.
*/
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 <tt>@link #visit</tt>. This is what
* <tt>@link ClassReader</tt> 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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1.50 axis 1.4

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1.51 backbone-poller 0.2.8

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1.56 bootstrap-datetimepicker 0.0.11

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0.9.1.2

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1.102 dojo 1.2.0

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1.107 fastinfoset 1.2.8

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 */

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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

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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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its purpose remains meaningful.

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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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1.145 jackson-databind 2.9.5
1.145.1 Available under license :

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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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1.150 jackson-module-jaxb-annotations 2.9.5

1.151 jackson-xc 1.9.2

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1.156 Java CSV 2.0

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

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

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1.159 Java Runtime Environment 1.8u121

1.160 Java Service Wrapper 3.1.2

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Bouncycastle Lightweight API for J2ME

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Version 2.1, February 1999

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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(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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a) Any dispute arising out of or relating to this License shall be finally settled by arbitration as set out herein, except that either party may bring any action, in a court of competent jurisdiction (which jurisdiction shall be exclusive), with respect to any dispute relating to such party's Intellectual Property Rights or with respect to Your compliance with the TCK license. Arbitration shall be administered: (i) by the American Arbitration Association (AAA), (ii) in accordance with the rules of the United Nations Commission on International Trade Law (UNCITRAL) (the "Rules") in effect at the time of arbitration as modified herein; and (iii) the arbitrator will apply the substantive laws of California and United States. Judgment upon the award rendered by the arbitrator may be entered in any court having jurisdiction to enforce such award.

b) All arbitration proceedings shall be conducted in English by a single arbitrator selected in accordance with the Rules, who must be fluent in English and be either a retired judge or practicing attorney having at least ten (10) years litigation experience and be reasonably familiar with the technology matters relative to the dispute. Unless otherwise agreed, arbitration venue shall be in London, Tokyo, or San Francisco, whichever is closest to defendant's principal business office. The arbitrator may award monetary damages only and nothing shall preclude either party from seeking provisional or emergency relief from a court of competent jurisdiction. The arbitrator shall have no authority to award damages in excess of those permitted in this License and any such award in excess is void. All awards will be payable in U.S. dollars and may include, for the prevailing party (i) pre-judgment award interest, (ii) reasonable attorneys' fees incurred in connection with the arbitration, and (iii) reasonable costs and expenses incurred in enforcing the award. The arbitrator will order each party to produce identified documents and respond to no more than twenty-five single question interrogatories.

8.7 Construction. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

8.8 U.S. Government End Users. The Covered Code is a

8.9 Press Announcements. All press announcements relative to the execution of this License must be reviewed and approved by Original Contributor and You prior to release.

8.10 International Use.

a) Export/Import laws. Covered Code is subject to U.S. export control laws and may be subject to export or import regulations in other countries. Each party agrees to comply strictly with all such laws and regulations and acknowledges their responsibility to obtain such licenses to export, re-export, or import as may be required. You agree to pass these obligations to Your licensees.

b) Intellectual Property Protection. Due to limited intellectual property protection and enforcement in certain countries, You agree not to redistribute the Original Code, Upgraded Code, TCK and Specifications to any country other than the list of restricted countries on the SCSL Webpage.

8.11 Language. This License is in the English language only, which language shall be controlling in all respects, and all versions of this License in any other language shall be for accommodation only and shall not be binding on the parties to this License. All communications and notices made or given pursuant to this License, and all documentation and support to be provided, unless otherwise noted, shall be in the English language.

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11. "Internal Deployment Use" means use of Compliant Covered Code (excluding Research Use) within Your business or organization only by Your employees and/or agents, subject to execution of Attachment C by You and Original Contributor, if required.

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13. "Modification(s)" means (i) any change to Covered Code; (ii) any new file or other representation of computer program statements that contains any portion of Covered Code; and/or (iii) any new Source Code implementing any portion of the Specifications.

14. "Original Code" means the initial Source Code for the Technology as described on the Technology Download Site.


16. "Reformatted Specifications" means any revision to the Specifications which translates or reformats the Specifications (as for example in connection with Your documentation) but which does not alter, subset or superset the functional or operational aspects of the Specifications.

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ATTACHMENT A

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ATTACHMENT A-1

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Associated Test Suite(s) Location:
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ATTACHMENT B

Java(tm) 2 SDK Technology

Description of "Technology"

Java(tm) 2 SDK Technology v. 5.0 as described on the Technology Download Site.

ATTACHMENT C

INTERNAL DEPLOYMENT USE

This Attachment C is only effective for the Technology specified in Attachment B, upon execution of Attachment D (Commercial Use License) including the requirement to pay royalties. In the event of a conflict between the terms of this Attachment C and Attachment D, the terms of Attachment D shall govern.

1. Internal Deployment License Grant. Subject to Your compliance with Section 2 below, and Section 8.10 of the Research Use license; in addition to the Research Use license and the TCK license, Original Contributor grants to You a worldwide, non-exclusive license, to the extent of Original Contributor's Intellectual Property Rights covering the Original Code, Upgraded Code and Specifications, to do the following:

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

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

7. Royalties and Payments.

Technology specified in Attachment B.

Field of Use:____________________

Royalty per Unit $_____________

b) Royalty Payments. Payment of royalties shall be made quarterly, shall be due thirty (30) days following the end of the calendar quarter to which they relate and shall be submitted with a written statement documenting the basis for the royalty calculation.
c) Taxes. All payments required by this License shall be made in United States dollars, are exclusive of taxes, and Licensee agrees to bear and be responsible for the payment of all such taxes, including, but not limited to, all sales, use, rental receipt, personal property or other taxes and their equivalents which may be levied or assessed in connection with this License (excluding only taxes based on Original Contributor's net income). To the extent Licensee is required to withhold taxes based upon Original Contributor's income in any country, You agree to provide Original Contributor with written evidence of such withholding, suitable for Original Contributor to obtain a tax credit in the United States.

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

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By:_________________________ By:_________________________

Title:_______________________ Title:____________________
ATTACHMENT E TECHNOLOGY COMPATIBILITY KIT

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

1. TCK License.

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

b) TCK Use Restrictions. You are not authorized to create derivative works of the TCK or use the TCK to test any implementation of the Specification that is not Covered Code. You may not publish your test results or make claims of comparative compatibility with respect to other implementations of the Specification. In consideration for the license grant in Section 1.a above you agree not to develop your own tests which are intended to validate conformance 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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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
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b) All arbitration proceedings shall be conducted in English by a single arbitrator selected in accordance with the Rules, who must be fluent in English and be either a retired judge or practicing attorney having at least ten (10) years litigation experience and be reasonably familiar with the technology matters relative to the dispute. Unless otherwise agreed, arbitration venue shall be in London, Tokyo, or San Francisco, whichever is closest to defendant's principal business office. The arbitrator may award monetary damages only and nothing shall preclude either party from seeking provisional or emergency relief from a court of competent jurisdiction. The arbitrator shall have no authority to award damages in excess of those permitted in this License and any such award in excess is void. All awards will be payable in U.S. dollars and may include, for the prevailing party (i) pre-judgment award interest, (ii) reasonable attorneys' fees incurred in connection with the arbitration, and (iii) reasonable costs and expenses incurred in enforcing the award. The arbitrator will order each party to produce identified documents and respond to no more than twenty-five single question interrogatories.
8.7 Construction. Any law or regulation which provides that
the language of a contract shall be construed against the
drafter shall not apply to this License.

8.8 U.S. Government End Users. The Covered Code is a
"commercial item," as that term is defined in 48 C.F.R.
2.101 (Oct. 1995), consisting of "commercial computer
software" and "commercial computer software documentation,"
as such terms are used in 48 C.F.R. 12.212 (Sept. 1995).
Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End
Users acquire Covered Code with only those rights set forth
herein. You agree to pass this notice to Your licensees.

8.9 Press Announcements. All press announcements relative
to the execution of this License must be reviewed and
approved by Original Contributor and You prior to release.

8.10 International Use.

a) Export/Import laws. Covered Code is subject to U.S.
export control laws and may be subject to export or import
regulations in other countries. Each party agrees to comply
strictly with all such laws and regulations and acknowledges
their responsibility to obtain such licenses to export,
re-export, or import as may be required. You agree to pass
these obligations to Your licensees.

b) Intellectual Property Protection. Due to limited
intellectual property protection and enforcement in certain
countries, You agree not to redistribute the Original Code,
Upgraded Code, TCK and Specifications to any country other
than the list of restricted countries on the SCSL Webpage.

8.11 Language. This License is in the English language
only, which language shall be controlling in all respects,
and all versions of this License in any other language shall
be for accommodation only and shall not be binding on the
parties to this License. All communications and notices
made or given pursuant to this License, and all
documentation and support to be provided, unless otherwise
noted, shall be in the English language.

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CLICKING ON THE "ACCEPT" BUTTON BELOW YOU ARE ACCEPTING AND
AGREEING TO THE TERMS AND CONDITIONS OF THIS LICENSE WITH
SUN MICROSYSTEMS, INC. IF YOU ARE AGREEING TO THIS LICENSE
ON BEHALF OF A COMPANY, YOU REPRESENT THAT YOU ARE
AUTHORIZED TO BIND THE COMPANY TO SUCH A LICENSE. WHETHER YOU ARE ACTING ON YOUR OWN BEHALF, OR REPRESENTING A COMPANY, YOU MUST BE OF MAJORITY AGE AND BE OTHERWISE COMPETENT TO ENTER INTO CONTRACTS. IF YOU DO NOT MEET THIS CRITERIA OR YOU DO NOT AGREE TO ANY OF THE TERMS AND CONDITIONS OF THIS LICENSE, CLICK ON THE REJECT BUTTON TO EXIT.

ACCEPT REJECT

GLOSSARY

1. "Commercial Use" means any use (excluding Internal Deployment Use) or distribution, directly or indirectly of Compliant Covered Code by You to any third party, alone or bundled with any other software or hardware, for direct or indirect commercial or strategic gain or advantage, subject to execution of Attachment D by You and Original Contributor.

2. "Community Code" means the Original Code, Upgraded Code, Error Corrections, Shared Modifications, or any combination thereof.

3. "Community Webserver(s)" means the webservers designated by Original Contributor for posting Error Corrections and Shared Modifications.

4. "Compliant Covered Code" means Covered Code that complies with the requirements of the TCK.

5. "Contributor" means each Licensee that creates or contributes to the creation of any Error Correction or Shared Modification.


7. "Error Correction" means any change made to Community Code which conforms to the Specification and corrects the adverse effect of a failure of Community Code to perform any function set forth in or required by the Specifications.

7. "Executable" means Covered Code that has been converted to a form other than Source Code.

9. "Extension(s)" means any additional classes or other programming code and/or interfaces developed by or for You
which: (i) are designed for use with the Technology; (ii) constitute an API for a library of computing functions or services; and (iii) are disclosed to third party software developers for the purpose of developing software which invokes such additional classes or other programming code and/or interfaces. The foregoing shall not apply to software development by Your subcontractors to be exclusively used by You.

10. "Intellectual Property Rights" means worldwide statutory and common law rights associated solely with (i) patents and patent applications; (ii) works of authorship including copyrights, copyright applications, copyright registrations and "moral rights"; (iii) the protection of trade and industrial secrets and confidential information; and (iv) divisions, continuations, renewals, and re-issuances of the foregoing now existing or acquired in the future.

11. "Internal Deployment Use" means use of Compliant Covered Code (excluding Research Use) within Your business or organization only by Your employees and/or agents, subject to execution of Attachment C by You and Original Contributor, if required.

12. "Licensee" means any party that has entered into and has in effect a version of this License with Original Contributor.

13. "Modification(s)" means (i) any change to Covered Code; (ii) any new file or other representation of computer program statements that contains any portion of Covered Code; and/or (iii) any new Source Code implementing any portion of the Specifications.

14. "Original Code" means the initial Source Code for the Technology as described on the Technology Download Site.


16. "Reformatted Specifications" means any revision to the Specifications which translates or reformats the Specifications (as for example in connection with Your documentation) but which does not alter, subset or superset the functional or operational aspects of the Specifications.

17. "Research Use" means use and distribution of Covered
Code only for Your research, development, educational or personal and individual use, and expressly excludes Internal Deployment Use and Commercial Use.

18. "SCSL Webpage" means the Sun Community Source license webpage located at http://sun.com/software/communitysource, or such other url that Sun may designate from time to time.

19. "Shared Modifications" means Modifications provided by You, at Your option, pursuant to Section 2.2, or received by You from a Contributor pursuant to Section 2.3.

20. "Source Code" means computer program statements written in any high-level, readable form suitable for modification and development.

21. "Specifications" means the specifications for the Technology and other documentation, as designated on the Technology Download Site, as may be revised by Original Contributor from time to time.

22. "Sun Trademarks" means Original Contributor's SUN, JAVA, and JINI trademarks and logos, whether now used or adopted in the future.

23. "Technology" means the technology described in Attachment B, and Upgrades.

24. "Technology Compatibility Kit" or "TCK" means the test programs, procedures and/or other requirements, designated by Original Contributor for use in verifying compliance of Covered Code with the Specifications, in conjunction with the Original Code and Upgraded Code. Original Contributor may, in its sole discretion and from time to time, revise a TCK to correct errors and/or omissions and in connection with Upgrades.

25. "Technology Download Site" means the site(s) designated by Original Contributor for access to the Original Code, Upgraded Code, TCK and Specifications.

26. "Upgrade(s)" means new versions of Technology designated exclusively by Original Contributor as an "Upgrade" and released by Original Contributor from time to time.

27. "Upgraded Code" means the Source Code for Upgrades, possibly including Modifications made by Contributors.
28. "You(r)" means an individual, or a legal entity acting by and through an individual or individuals, exercising rights either under this License or under a future version of this License issued pursuant to Section 4.1. For legal entities, "You(r)" includes any entity that by majority voting interest controls, is controlled by, or is under common control with You.

ATTACHMENT A

REQUIRED NOTICES

ATTACHMENT A-1

REQUIRED IN ALL CASES

"The contents of this file, or the files included with this file, are subject to the current version of Sun Community Source License for [fill in name of applicable Technology] (the "License"); You may not use this file except in compliance with the License. You may obtain a copy of the License at http://sun.com/software/communitysource. See the License for the rights, obligations and limitations governing use of the contents of the file.

The Original and Upgraded Code is [fill in name and version of applicable Technology]. The developer of the Original and Upgraded Code is Sun Microsystems, Inc. Sun Microsystems, Inc. owns the copyrights in the portions it created. All Rights Reserved.

Contributor(s):
_______________________________________________

Associated Test Suite(s) Location:
________________________________

ATTACHMENT A-2

SAMPLE LICENSEE CERTIFICATION

"By clicking the 'Agree' button below, You certify that You are a Licensee in good standing under the Sun Community Source License, [fill in applicable Technology and Version] ("License") and that Your access, use and distribution of code and information You may obtain at this site is subject to the License."
REQUIRED STUDENT NOTIFICATION

“This software and related documentation has been obtained by your educational institution subject to the Sun Community Source License, [fill in applicable Technology]. You have been provided access to the software and related documentation for use only in connection with your course work and research activities as a matriculated student of your educational institution. Any other use is expressly prohibited.

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You may not use this file except in compliance with the License. You may obtain a copy of the License on the web at http://sun.com/software/communitysource.”

ATTACHMENT B

Java(tm) 2 SDK Technology

Description of "Technology"

Java(tm) 2 SDK Technology v. 5.0 as described on the Technology Download Site.

ATTACHMENT C

INTERNAL DEPLOYMENT USE

This Attachment C is only effective for the Technology specified in Attachment B, upon execution of Attachment D (Commercial Use License) including the requirement to pay royalties. In the event of a conflict between the terms of this Attachment C and Attachment D, the terms of Attachment D shall govern.

1. Internal Deployment License Grant. Subject to Your compliance with Section 2 below, and Section 8.10 of the Research Use license; in addition to the Research Use license and the TCK license, Original Contributor grants to You a worldwide, non-exclusive license, to the extent of Original Contributor's Intellectual Property Rights covering
the Original Code, Upgraded Code and Specifications, to do
the following:

a) reproduce and distribute internally, Original Code and
Upgraded Code as part of Compliant Covered Code, and
Specifications, for Internal Deployment Use,

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

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

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

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

ATTACHMENT D COMMERCIAL USE LICENSE

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

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

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

a) reproduce and distribute Compliant Covered Code;

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

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

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

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

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

c) Branding. Products integrating Compliant Covered Code used for Commercial Use must be branded with the Technology compliance logo under a separate trademark license required to be executed by You and Original Contributor concurrent with execution of this Attachment D.

5. Indemnity/Limitation of Liability. The provisions of Section 7.1 of the Research Use license are superseded by the following:

a) Your Indemnity Obligation. You hereby agree to defend,
at Your expense, any legal proceeding brought against Original Contributor or any Licensee to the extent it is based on a claim: (i) that the use, reproduction or distribution of any of Your Error Corrections or Shared Modifications is an infringement of a third party trade secret or a copyright in a country that is a signatory to the Berne Convention; (ii) arising in connection with any representation, warranty, support, indemnity, liability or other license terms You may offer in connection with any Covered Code; or (iii) arising from Your Commercial Use of Covered Code, other than a claim covered by Section 5.b) below, or a patent claim based solely on Covered Code not provided by You. You will pay all damages costs and fees awarded by a court of competent jurisdiction, or such settlement amount negotiated by You, attributable to such claim.

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

c) Right of Intervention. Original Contributor will have the right, but not the obligation, to defend You, at Original Contributor's expense, in connection with a claim that Your Commercial Use of Original Code and Upgraded Code is an infringement of a third party patent and will, if Original Contributor chooses to defend You, pay all damages costs and fees awarded by a court of competent jurisdiction, or such settlement amount negotiated by Original Contributor, attributable to such claim.

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

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


Support to You. Technical support is not provided to You by Original Contributor under this License. You may contract for one or more support programs from Original Contributor relating to the Technology which are described on the SCSL Webpage.

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

7. Royalties and Payments.

Technology specified in Attachment B.

Field of Use:____________________

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

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

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

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

f) Payment Errors. In the event that any errors in payments shall be determined, such errors shall be corrected by appropriate adjustment in payment for the quarterly period during which the error is discovered. In the event of an underpayment of more than five percent (5%) of the proper
amount owed, upon such underpayment being properly determined by the Auditor, You agree to reimburse Original Contributor the amount of the underpayment and all reasonable costs and expenses associated with the exercise of its rights to audit, and interest on the overdue amount at the maximum allowable interest rate from the date of accrual of such obligation.

8. Notice of Breach or Infringement. Each party shall notify the other immediately in writing when it becomes aware of any breach or violation of the terms of this License, or when You become aware of any potential or actual infringement by a third party of the Technology or Sun's Intellectual Property Rights therein.

9. Proprietary Rights Notices. You may not remove any copyright notices, trademark notices or other proprietary legends of Original Contributor or its suppliers contained on or in the Original Code, Upgraded Code and Specifications.

10. Notices. All written notices required by this License must be delivered in person or by means evidenced by a delivery receipt and will be effective upon receipt by the persons at the addresses specified below.

Original Contributor:  You:

Sun Microsystems, Inc. ______________________________

4150 Network Circle ______________________________

Santa Clara, California 95054 ______________________________

Attn.: VP, Sun Software and Technology Sales__________________________

cc: Legal (Software Sales)

11. Disclaimer of Agency. The relationship created hereby is that of licensor and licensee and the parties hereby acknowledge and agree that nothing herein shall be deemed to constitute You as a franchisee of Original Contributor. You hereby waive the benefit of any state or federal statutes dealing with the establishment and regulation of franchises.

Agreed:
You: Original Contributor:
ATTACHMENT E TECHNOLOGY COMPATIBILITY KIT

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

1. TCK License.

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

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

2. Requirements for Determining Compliance.

2.1 Definitions.

a) "Added Value" means code which:

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

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

(iii) operates in conjunction with the Technology; and

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

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

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

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

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

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

2.2 Development Restrictions. Compliant Covered Code:

a) must include Added Value;

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

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

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

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

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

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

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

License

jTDS is Free Software. jTDS is made available under the terms of the GNU Lesser General Public License. The LGPL is sufficiently flexible to allow the use of jTDS in both open source and commercial projects. Using jTDS is considered to be dynamic linking; hence our interpretation of the LGPL is that the use of the unmodified jTDS source
or binary does not affect the license of your application code.

If you modify jTDS and redistribute your modifications, the LGPL applies,
basically meaning that you'll have to make the modified version publicly available under the LGPL license too. This ensures that all users of the software have access to all future improvements.

jTDS was initially based on software released under a BSD license by CDS Networks, Inc. and/or Craig Spannring,
the author of the original FreeTDS JDBC driver from which jTDS is derived.
Between releases 0.8.1 and 0.9 jTDS was completely rewritten so the original BSD license no longer applies.

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Version 2.1, February 1999

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

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

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

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

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

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

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

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

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

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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Amendment II

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

Amendment III

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

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/**
 * Default implementation of the Attributes interface.
 *
 * @param <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * @param See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * @param </blockquote>
 *
 * This class provides a default implementation of the SAX2
 * {org.xml.sax.Attributes Attributes} interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * There are two typical uses of this class:<p>
 *
 * 1. to take a persistent snapshot of an Attributes object
 * 2. in a {org.xml.sax.ContentHandler#startElement startElement} event; or</li>
 * 3. to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * 4. </ol>
 *
 * This class replaces the now-deprecated SAX1 {org.xml.sax.helpers.AttributeListImpl AttributeListImpl} class; in addition to supporting the updated Attributes
 * interface rather than the deprecated {org.xml.sax.AttributeList
 * AttributeList} interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
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Amendment II

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

Amendment III

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

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and
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1.175 JDK 1.8.0_121

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1.177 jersey-apache-client4 1.19

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1.184 jersey-server 1.11

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1.193 jQuery UI 1.10.4

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1.195 jquery.cookie 1.3.1

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1.196 jQuery.dataTables 1.9.4

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1.213 junit-addons 1.4

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1.225 Logback Core Module 1.1.2

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cat logback-core-1.1.2-sources/ch/qos/logback/core/LayoutBase.java
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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

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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.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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1.241 OmniORB 4.1.7

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// Package : omniORB
// cs-037.cc Created on: 29/01/2003
// Author : Coleman Corrigan
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"Source code" for a work means the preferred form of the work for
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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 Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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 library's name and a brief idea of what it does.>
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

1.242 OmniORB - library 4.1.0

1.242.1 Available under license:

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Version 2, June 1991

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

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

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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);
        return constructor.newInstance();
    }
}
if (constructor.isVarArgs()) {

/*
 * Get the last argument because this contains the actual varargs
 * arguments.
 */
int length = constructor.getParameterTypes().length;
args = (Object[]) args[length-1];
}
try {
final MocksControl.MockType mockType = ((EasyMockMethodInvocationControl<?>)
MockRepository.getInstanceMethodInvocationControl(substitute))
.getMockType();
Object result = substitute.performSubstitutionLogic(args);

if (result == null) {
if (mockType == MocksControl.MockType.NICE) {
    result = EasyMock.createNiceMock(substitutionType);
} else {
    throw new IllegalStateException("Must replay class " + type.getName() + " to get configured expectation.");
}
return result;
} catch (AssertionError e) {
    NewInvocationControlAssertionError.throwAssertionErrorForNewSubstitutionFailure(e, type);
}

// Won't happen
return null;
}

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

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

/**
 * { @inheritdoc }

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

/**
 * @inheritDoc
 */

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

1.252 Prototype 1.5.0

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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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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1.254 pthreads-w32 2.9.1

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If distribution of object code is made by offering access to copy
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pthread-win32 - a POSIX threads library for Microsoft Windows

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

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Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used 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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Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.
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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1.276 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;

abstract class NamedLoggerBase implements Logger, Serializable {

    private static final long serialVersionUID = 7535258609338176893L;

    protected String name;

    public String getName() {
        return name;
    }

    protected Object readResolve() throws ObjectStreamException {

        /*
         * 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.
             * @return logger with same name as returned by LoggerFactory
             * @throws ObjectStreamException
             */
            protected Object readResolve() throws ObjectStreamException {

                /*
                 * 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
                 */
                return null;
            }
        }
    }
}
// using getName() instead of this.name works even for
// NOPLogger
return LoggerFactory.getLogger(getName());
}

1.277 slf4j-log4j12 1.7.12

1.278 spiffy 0.05
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1.293 spring-jdbc 3.0.5.RELEASE

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1.297 spymemcached 2.8.0

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1.299 stax-api 1.0.2

1.300 STLPort 4.0

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1.301 storm-core 0.9.2-incubating

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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 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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the event an application does not supply such function or table,
the facility still operates, and performs whatever part of its
purpose remains meaningful.
(For example, a function in a library to compute square roots has a
purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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*/

1.311 tomcat-connectors 1.2.41
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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 = \n$(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+= \n$(JKCOMMON) \n$(APR)/include \n$(APRUTIL)/include \n$(AP_WORK)/include \n$(NWOS) \n$(EOLIST)
# These flags will come after CFLAGS
#
XCFLAGS += \n$(EOLIST)

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

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

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

XCFLAGS += \n$(EOLIST)

XDEFINES += \n$(EOLIST)

XLFLAGS += \n$(EOLIST)
endif

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

XCFLAGS += \n$(EOLIST)

XDEFINES += \n$(EOLIST)

$(EOLIST)
XLFLAGS+=\n$(EOLIST)
endif

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

XCFLAGS+=\n$(EOLIST)

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 = $(EOLIST)
#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the '/' character
#
FILES_nlm_objs = \n$(OBJDIR)/jk_nwmain.o \n$(OBJDIR)/jk_ajp12_worker.o \n$(OBJDIR)/jk_ajp13.o \n$(OBJDIR)/jk_ajp13_worker.o \n$(OBJDIR)/jk_ajp14.o \n$(OBJDIR)/jk_ajp14_worker.o \n$(OBJDIR)/jk_ajp_common.o \n$(OBJDIR)/jk_connect.o \n$(OBJDIR)/jk_context.o \n$(OBJDIR)/jk_lh_worker.o \n$(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/*.nlm

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

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

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

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

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

CRTCMT MOD 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') +
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 +
   USE_SO_RCVTIMEO USE_SO_SNVTIMEO ) +
TEXT('jk_ajp14_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_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_SNVTIMEO ) +
TEXT('jk_connect.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_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) +
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_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) +
LOCALETYPEn('LOCALEUTF') +
SYSIFCOPTn('IFSIO') +
LANGLVLn('EXTENDED') +
TERASPACEn('YES') +
TGTRLSn('CURRENT') +
INCDIRn('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPEn('LOCALEUTF') +
SYSIFCOPTn('IFSIO') +
LANGLVLn('EXTENDED') +
TERASPACEn('YES') +
TGTRLSn('CURRENT') +
INCDIRn('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPEn('LOCALEUTF') +
SYSIFCOPTn('IFSIO') +
LANGLVLn('EXTENDED') +
TERASPACEn('YES') +
TGTRLSn('CURRENT') +
INCDIRn('/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_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPEn('LOCALEUTF') +
SYSIFCOPTn('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_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.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_SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALEType(*LOCALEUTF) +
SYSIFCoPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
'_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGVL(*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) +
LANGVL(*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) +
LANGVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common ' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_SHM) +
SRCCSTMF('/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) +
LOCALETYP(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGVL(*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.SOCKBUFF 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
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
ENDIF
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=\n
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:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS=\n  "$(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
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2421
"$(INTDIR)\jk_status.obj" \\
"$(INTDIR)\jk_uri_worker_map.obj" \\
"$(INTDIR)\jk_url.obj" \\
"$(INTDIR)\jk_util.obj" \\
"$(INTDIR)\jk_worker.obj" \\
"$(INTDIR)\jk.res" \\
"$(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) $<
    @<<
"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_context.c

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

SOURCE=..\common\jk_lb_worker.c

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

SOURCE=..\common\jk_map.c

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

SOURCE=..\common\jk_md5.c

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

SOURCE=..\common\jk_msg_buff.c

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

SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj" : $(SOURCE) "$(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=..\common\jk_worker.c

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

SOURCE=\mod_jk.c

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

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

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

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

CRTCMD MODULE(MOD_JK/JK_AJP14_W) +
SRCSTMF('/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) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_CONNECT) +
SRCSTMF('/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) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

CRTCMD MOD(MOD_JK/JK_LB_WORK) +
SRCSTMF(''/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR(''/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD(MOD_JK/JK_MAP) +
SRCSTMF(''/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR(''/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD(MOD_JK/JK_MD5) +
SRCSTMF(''/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR(''/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD(MOD_JK/JK_MSG_BUF) +
SRCSTMF(''/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLV(*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_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLV(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

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

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

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

CRTCMD MOD(MOD_JK/JK_UTIL) +
SRCSTMF('home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOTP(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD(MOD_JK/JK_WORKER) +
SRCSTMF('home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOTP(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD(MOD_JK/JK_STATUS) +
SRCSTMF('home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'HAVE_APR' 'XOPEN_SOURCE=520' +
   'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOTP(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMD MOD(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) +
LOCALETYP(*LOCALE) +
SYSIFCOTP(*IFSIO) +
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-------------

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

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1.312 Twitter Bootstrap 2.3.2

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1.1

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Javassist version 3

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Implementation and Compiler 1.1

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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf

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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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3.42 FindBugs-jsr305 1.3.9

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3.43 fusemq-leveldb 1.1

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 */

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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.
 * *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * [@link IMarkerFactory] instance bound at compile time.
 * *
 * <p>
 * Please note that all methods in this class are static.
 * *
 * @author Ceki G¼lçç¼;
 */
public class MarkerFactory {
    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

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

    public static Marker createMarker(String name) {
        return markerFactory.createMarker(name);
    }

    public static Marker createMarker(Class<?> clazz) {
        return markerFactory.createMarker(clazz);
    }

    public static Marker createMarker(String name, Class<?> clazz) {
        return markerFactory.createMarker(name, clazz);
    }

    public static IMarkerFactory getMarkerFactory() {
        return markerFactory;
    }

    public static void setMarkerFactory(IMarkerFactory factory) {
        markerFactory = factory;
    }
}
// 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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4.7 animal-sniffer-annotations 1.14

4.8 annotations 1.3.7
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AppleJavaExtensions
v 1.2

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

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

4.14 ant-launcher 1.8.2 :REL

4.15 antisamy 1.4.3

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4.16 antisamy 1.5.3

4.17 antlr4-runtime 4.7.1

4.18 aopalliance-repackaged 2.4.0-b34

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4.27 apache-ant_within-cglib 1.6.5

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4.28 apache-mime4j-core 0.7.2

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4.30 asm 3.3.1

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4.31 asm-all-3.3.1_within-cglib 3.3.1

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4.34 asterisk-java 1.0.0.M3

4.35 async-http-client 1.9.40

4.36 aws-java-sdk-cloudfront 1.11.21

4.37 aws-java-sdk-core 1.11.21

4.38 aws-java-sdk-kms 1.11.21
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4.41 axis 1.4

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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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 contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

   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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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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For example, if you distribute copies of the library, whether gratis

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code. If you link other code with the library, you must provide

complete object files to the recipients, so that they can relink them

with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the
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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

total combination fits its criteria of freedom. The Lesser General

Public License permits more lax criteria for linking other code with

the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user’s freedom than the ordinary General

Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to

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

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

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

library does the same job as widely used non-free libraries. In this

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

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

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

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

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

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

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a

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straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for

writing it). Whether that is true depends on what the Library does

and what the program that uses the Library does.

I. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that

you conspicuously and appropriately publish on each copy an

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all the notices that refer to this License and to the absence of any

warranty; and distribute a copy of this License along with the

Library.

You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a

fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

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

root function must still compute square roots.)
These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of

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entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

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3. You may opt to apply the terms of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in

these notices.

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Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

t hat the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application

to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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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.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>

<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>
</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:

```
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```

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
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Requirements:

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1.1. Quickstart: Typical lifecycle phases
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Maven will create a target/ directory under the root for the creation of output at every stage.

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* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/
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Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

java.lang.NullPointerException
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...

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which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

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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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Version 2.1, February 1999

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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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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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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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* Third-Party Component Notices

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For an executable, the required form of the "work that uses the

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Library" must include any data and utility programs needed for

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

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the materials to be distributed need not include anything that is

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

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components (compiler, kernel, and so on) of the operating system on

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which the executable runs, unless that component itself accompanies

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the executable.

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It may happen that this requirement contradicts the license

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Dictionary files (*.tlx and *.clx) and other files located in the "runtime" directory of the Software Development Kit.

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PURCHASE PRICE.</P><P ALIGN=CENTER><HR ALIGN=CENTER WIDTH="100%" SIZE="2"></P><P ALIGN=LEFT>
Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0
Open Source Used In 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

For more information on the MS SQL Server JDBC type 4 drivers, please refer to the documentation provided by the MS SQL Server JDBC type 4 drivers.

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1.2 Using the Driver in an Applet

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<li class="level2"><div class="li"><span class="li"><a href="#jdbc-40-api" class="inlinetoc">5.1 JDBC 4.0 API</a></span></div></li>
</ul>

<ul class="inlinetoc">
<li class="level1"><div class="li"><span class="li"><a href="#new-datatypes" class="inlinetoc">6. New Datatypes</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#new-datatypes-with-sql-server-70-and-2000" class="inlinetoc">6.1 New Datatypes with SQL Server 7.0 and 2000</a></span></div></li>
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<li class="level2"><div class="li"><span class="li"><a href="#new-data-types-with-sql-server-2008" class="inlinetoc">6.3 New Data types with SQL Server 2008</a></span></div></li>
</ul>
</li>
</ul>

<ul class="inlinetoc">
<li class="level1"><div class="li"><span class="li"><a href="#preparedstatement-performance-and-data-type-mapping" class="inlinetoc">7. PreparedStatement Performance and Data Type Mapping</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#data-type-precedence" class="inlinetoc">7.1. Data Type Precedence</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#data-type-mapping" class="inlinetoc">7.2 Data Type Mapping</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#the-performance-problem" class="inlinetoc">7.3 The Performance Problem</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#numeric-columns-and-sql-server-2000-sp4" class="inlinetoc">7.4 Numeric columns and SQL Server 2000 SP4</a></span></div></li>
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</li>
</ul>

<ul class="inlinetoc">
<li class="level1"><div class="li"><span class="li"><a href="#scrolling-cursor-types" class="inlinetoc">8. Scrolling Cursor Types</a></span></div>
</li>
</ul>

<ul class="inlinetoc">
<li class="level1"><div class="li"><span class="li"><a href="#locking-and-concurrency-control" class="inlinetoc">9. Locking and Concurrency Control</a></span></div>
</li>
</ul>

<ul class="inlinetoc">
<li class="level1"><div class="li"><span class="li"><a href="#failover" class="inlinetoc">10. Failover</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#failover-on-getconnection" class="inlinetoc">10.1 Failover on getConnection()</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#failover-with-clusters" class="inlinetoc">10.2 Failover with Clusters</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#monitored-failover" class="inlinetoc">10.3 Monitored Failover</a></span></div>
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<li class="level3"><div class="li"><span class="li"><a href="#configuration-via-connection-properties" class="inlinetoc">10.3.1 Configuration via Connection properties</a></span></div></li>
<li class="level3"><div class="li"><span class="li"><a href="#configuration-in-java" class="inlinetoc">10.3.2 Configuration in Java</a></span></div></li>
</ul>
</li>
</ul>
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17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)
17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)
17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)
17.7. Changes in Version 6.01 (1. Apr 2004)
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.

2. Getting Started

2.1 SQL Server, Java and JDBC Versions

---

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<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 (with Java 6.0)</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>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API 1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>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:

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 &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:

Select the SQL Server in the Enterprise Manager.
Open the properties dialog

Select the security tab

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

The class name of the driver is: <strong>com.inet.tds.TdsDriver</strong>

The name of the pooled driver is: <strong>com.inet.pool.PoolDriver</strong>
The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA

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

### 2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>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. <a href="#jdbc-40-api">see character converting JDBC 4.0 API</a></td>
</tr>
<tr>
<td><code>jdbc:inetdae6:</code></td>
<td>SQL Server 6.5 compatible mode (passwords are transfered plainly)</td>
</tr>
<tr>
<td><code>jdbc:inetdae:</code></td>
<td>Only for compatibility with older versions</td>
</tr>
<tr>
<td><code>jdbc:inetpool:</code></td>
<td>Pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

### 2.7 JDBC URL Syntax of the driver

```sql
jdbc:inetdae7:hostname:portnumber
```

With default port 1433:

```sql
jdbc:inetdae7:hostname
```

With properties:

```sql
jdbc:inetdae7:hostname?database=MyDb&language=us_english
```
The pooled driver is only part of OPTA and MERLIA.

Examples:

- jdbc:inetpool:inetdae7:www.inetsoftware.de:1433
- jdbc:inetpool:inetdae7:localHost:1433
- jdbc:inetdae7:210.1.164.19:1433
- jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433
- jdbc:inetpool:jdbc:inetdae7:localHost:1433
## 2.9 Implemented Driver Properties

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

If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.
<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
</table>
| sql7              | &quot;false&quot; with &quot;inetdae&quot;&quot;true&quot; | The new datatypes are supported by this property. It works only with the classic subprotocol &quot;inetdae&quot;.

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>secureLevel</td>
<td>1</td>
<td>Sets the level of security with SSL.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>prepare</td>
<td>&quot;true&quot;</td>
<td>PreparedStatements are prepared on the SQL Server.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>prepareLiveTime</td>
<td>60 seconds</td>
<td>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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>lastUpdateCount</td>
<td>&quot;false&quot;</td>
<td>If the value is &quot;true&quot; then the method executeUpdate() should return the last update count. This property makes it helpful if you use PreparedStatements on tables with triggers. In this case, the first update count is the count of the trigger. With this property, you can receive the last update count which is ever the count of your UPDATE or INSERT expression. This property makes problems with expression that return multiple update counts. In this case, you receive only the last update count.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>loginTimeout</td>
<td>Override value from DriverManager.getLoginTimeout()</td>
<td>Override the value from DriverManager.getLoginTimeout()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>queryTimeout</td>
<td>5 * loginTimeout</td>
<td>Default query timeout for all Statements.</td>
</tr>
</tbody>
</table>
The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().

### JAVA_OBJECT

Default is "true"

The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().

### appname

Application name (only Application and Enterprise licenses)

### WSID

Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().

### 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 be found in the chapter "Scrolling Cursor Types".

### useInsteadOfTrigger

Default is "false"

"true" - in a query with multiple tables all are updated in one step with updateRow(). You need a INSTEAD OF trigger.

### impltran

With Driver the default is "true" for compatibility with the JDBC-ODBC bridge.

With DataSource the default is "false" to reduce deadlock problems.

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

### fulltran

Default is "true", creates always a transaction with setAutoCommit( false );

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>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dstsave</td>
<td>Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the 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>fastbatch</td>
<td>Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr>
<td>host</td>
<td>override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property 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 Failover on getConnection()</td>
</tr>
<tr>
<td>mars</td>
<td>Enables or disables</td>
</tr>
</tbody>
</table>
(&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.

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.

<table>
<thead>
<tr>
<th>Packet Size</th>
<th>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>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
<td>Only for DataSources. The value is equal to the JDBC sub protocol. See the API documentation for more details.</td>
</tr>
<tr>
<td>Type Mapping</td>
<td>default is jdbc4. 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>
</tbody>
</table>

There are three ways to put the properties to the driver:

1. Append the properties to the &lt;abbr title=}&quot;Uniform Resource Locator&quot;&gt;URL&lt;/abbr&gt; 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.

Comments of the switches:

SAPWD=&quot;password&quot; SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0

You need to enable &quot;Mixed Authentication&quot; 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;password&quot; SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

 Comments of the switches:
Set the password for the sa account. This is required for Windows Server 2003.

SECURITYMODE=SQL

Set the Authentication to &quot;Mixed Mode&quot;. This is required to connect via TCP/IP with a non Windows program like Java.

DISABLENETWORKPROTOCOLS=0

Enable the TCP/IP protocol

</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">
<p>
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

```
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'&039;}
```

4.2 Stored Procedures
<pre class="code">{call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?][...])}
{? = call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?][...])}</pre>

examples:
</p>
</div><h3 id="functions">4.3 Functions</h3>

<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()}<{p}
{fn POWER(number, power)}
Time and Date Functions

```html
{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:

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

4.4 Outer Join

```html
{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}
```
<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 &quot; charset=YourCharSet&quot; to the url.</p>

<p>for example: &quot;jdbc:inetdae:localhost:1433?charset=Cp1250&quot;</p>

<p>or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + sun.io.ByteToCharConverter.get_Default().getCharacterEncoding();</p>

<p>or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;);</p>

<p>or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();</p>

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

<p>You can test the availability of a character set with:<br/>&quot;test string&quot;.getBytes( charset );</p>

<p>If this line executes correctly the character set is available in the current VM.</p>

<p>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: &quot;INSERT INTO myTable(nvarchar field) VALUES( N\'national text\' )&quot;</p>

<h3 id="jdbc-40-api">5.1 JDBC 4.0 API</h3>
<p>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.setString(int, String). All previous functions like PreparedStatement.setString(int, String) are reduced to support ASCII characters only. If you need this compatibility then you have to use &quot;inetdae7a&quot; subprotocol. If you want all String setter functions support unicode characters, use &quot;inetdae7&quot; subprotocol.
6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

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

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

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

If you want use the 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:

- 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
The other new data types:

- DATETIME2
- DATETIMEOFFSET
- 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

7.2 Data Type Mapping

If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>⇐ NVARCHAR; 4000 NVARCHAR&lt;br/&gt;4000 NTEXT</td>
<td>⇐ 8000 VARCHAR; 8000 TEXT&lt;br/&gt;8000 TEXT</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td>⇐ 8000 VARCHAR&lt;br/&gt;8000 TEXT</td>
<td>..</td>
</tr>
<tr>
<td>setClob</td>
<td>⇐ NVARCHAR; 4000 NVARCHAR&lt;br/&gt;4000 NTEXT</td>
<td>⇐ 8000 VARCHAR; 8000 TEXT&lt;br/&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 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)` and 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.

```sql
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 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>Inensitive 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>
</tbody>
</table>
The fetch functions will allow all fetchtype values.

Dynamic cursor

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

Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed.

Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values.

Read-only cursor. You cannot modify rows in the cursor result set.

Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available.

Concurrency type is one of the following concurrency control options.

Concurrent type is one of the following concurrency control options.
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.

</p>
</div>

<h3 id="configuration-via-connection-properties">10.3.1 Configuration via Connection properties</h3>

<p>
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:
</p>

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

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

</p>
For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java.

A FailoverListener can be only added to a Connection, that implements the interface TAFConnection.

Those Connection can be received from:

- com.inet.pool.PoolDriver
- com.inet.ora.PDataSource
- com.inet.tds.PDataSource
- com.inet.syb.PDataSource
- com.inet.drda.PDataSource

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

Example:

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

//add a FailoverListener
FailoverListener fl = new samples.monitoredFailover.CounteredFailoverListener(99);
```


11. Snapshot Transaction Isolation

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

- **Modify the database**
  
  You can modify the database with the following SQL statement:

  ```sql
  ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON
  ```

- **initSQL**
  
  If you do not change the level at using of connection then you can set it at creation of the connection with:

  ```sql
  initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT
  ```

- **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 <abbr title="Application Programming Interface">API</abbr>
If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

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

Application Server <abbr title="Graphical User Interface">GUI</abbr> 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.setLogStream(new PrintWriter(System.out));  
myDataSource.setLogStream(new PrintWriter(new FileOutputStream("c:\driver.log")));  
myDataSource.setLogStream(System.out);  
myDataSource.setLogStream(new PrintWriter(System.out));

enable the logging only for connections from this DataSource

enable the logging only for connections from this DataSource
Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.

The latest support information are available at: http://www.inetsoftware.de/support

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

<table>
<thead>
<tr>
<th>Licensing, Pricing, Updates, ...</th>
<th>sales at inetsoftware.de</th>
</tr>
</thead>
<tbody>
<tr>
<td>i-net UNA</td>
<td>una at inetsoftware.de</td>
</tr>
<tr>
<td>i-net SPRINTA</td>
<td>sprinta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net OPTA</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net MERLIA</td>
<td>merlia at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE</td>
<td>opta at inetsoftware.de</td>
</tr>
<tr>
<td>i-net GATE3</td>
<td>merlia at inetsoftware.de</td>
</tr>
</tbody>
</table>
<h2 id="documentation">14. Documentation</h2>

You can find more documentation at:


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

<ul>
  <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</li>
  <ul>
    <li>set integer values instead of Strings</li>
  </ul>
  <li>use JDBC URL "jdbc:inetdae7a" - take care about no unicode support</li>
  <li>set JDBC URL parameter "tds9=false" - results in unsupport of new sql server 2005 data types</li>
  <li>When using named pipes, setting timeout has no effect.</li>
  <li>When using named pipes, cancel() has no effect.</li>
  <li>The method getTableName() requires a cursor or the "for browse" statement.</li>
  <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 &quot;char(10) output&quot; and the output value is &quot;abc&quot; &quot;def&quot; you receive the value &quot;abcd&quot;)</li>
  <li>The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.</li>
  <li>The following methods are not supported by this release:</li>
  <ul>
    <li>PrepareStatement.setArray (int i, Array x)</li>
    <li>PrepareStatement.setRef (int i, Ref x)</li>
  </ul>
</ul>
<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>
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
<li><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><div class="li"> Click the &quot;Prepare request now, but send it later&quot; radio button. Click the &quot;Next&quot; button.</div></li>
<li><div class="li"> Enter your organization name and unit and click the &quot;Next&quot; button.</div></li>
<li><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><div class="li"> Enter your State and City. Click the &quot;Next&quot; button.</div></li>
<li><div class="li"> Accept the default file name of c:\certreq.txt and click the &quot;Next&quot; button.</div></li>
<li><div class="li"> Click the Next button, then click Finish.</div></li>

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

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

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

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

Run Internet Explorer and enter the URL &lt;br&gt; http://YourCertificateServer/certsrv.

Select &quot;Request a Certificate&quot; and click &quot;Next&quot;.
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.
<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.

- 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.

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

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

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

- 0: 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.
Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.

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.

17. Changes

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

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

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

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.
- ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).
- A bug with wasNull() and getXXX( x, Calendar) was fixed.
- A bug with isFirst() in CachedRowSet was fixed.
- A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.
- A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.
A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCPProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

A bug with CachedRowSet and setXXX was fixed. It works without 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(), 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.

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.

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 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 (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 reading the new datatypes Time, Date, XML, `Varchar(max)`, `NVarchar(max)` and `Varbinary(max)` was added.

Support for writing 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`s/`CallableStatements`.

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


A call of `cancel()` on creating of a server cursor now throws an `SQLException`. Before a corrupt `ResultSet` was returned.

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

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

The timing for resolving the instance name was changed.

The property `WSID` was added.
The restoring of the connection after a query timeout is faster now if the MS SQL Server does not need to 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

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

<li class="level1"><div class="li"> Adapted meta data requests to changes made in final SQL Server 2005.</div></li>

<li class="level1"><div class="li"> In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.</div></li>

</div>


<ul>
<li class="level1"><div class="li"> When the PreparedStatement contained a character sequence in SQL like 
&amp;#039;--&amp;#039;, the parameters following were ignored.</div></li>

<li class="level1"><div class="li"> Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC <abbr title="Uniform Resource Locator">URL</abbr>)</div></li>

<li class="level1"><div class="li"> The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.</div></li>

<li class="level1"><div class="li"> If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.</div></li>

<li class="level1"><div class="li"> Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.</div></li>

<li class="level1"><div class="li"> Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.</div></li>

<li class="level1"><div class="li"> The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.</div></li>

<li class="level1"><div class="li"> Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn't regard the max data types of SQL Server 2005. An &quot;unknown type&quot; Exception was thrown before.</div></li>

<li class="level1"><div class="li"> Only SQL Server 2005: PreparedStatement.setString with empty String value sends null instead of empty String.</div></li>

<li class="level1"><div class="li"> Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error &quot;column type XX is unknown&quot;.</div></li>
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().

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 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 FORWARDONLY, READONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.

AutoClose was added.

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

A bug with the PoolManager inactive timeout was fixed.

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

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

The bulk transfer limit was reduced from 200 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.

<li class="level1"><div class="li">Transaction isolation snapshot was added.</div>
</li>

<li class="level1"><div class="li">The JDBC 4 feature of negative length for streaming values was added.</div>
</li>

<li class="level1"><div class="li">A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default Serializable.</div>
</li>

<li class="level1"><div class="li">ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.</div>
</li>

<li class="level1"><div class="li">Some failover properties were added.</div>
</li>

<li class="level1"><div class="li">A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.</div>
</li>

<li class="level1"><div class="li">PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.</div>
</li>

<li class="level1"><div class="li">The property typeMapping was added.</div>
</li>

<li class="level1"><div class="li">JDBC4 interface was added for i-net MERLIA.</div>
</li>

</div>


<ul>
<li class="level1"><div class="li">A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.</div>
</li>

<li class="level1"><div class="li">A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.</div>
</li>

<li class="level1"><div class="li">A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.</div>
</li>

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

<li class="level1"><div class="li">A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.</div>
</li>

<li class="level1"><div class="li">Some protocol violations with the data type XML were fixed.</div>
</li>

</ul>
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: 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, 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 &#039;2007-10-19...
10:20:30.000'&quot; returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.</li>

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

<li class="level1"><div class="li"> Instances of PDataSource could not have been serialized.</div></li>

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

<li class="level1"><div class="li"> A NullPointerException with deserialize of the CachedRowSet was fixed.</div></li>

<li class="level1"><div class="li"> The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.</div></li>
<div class="level3">
<ul>
<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 (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.</li>
<li>There was a NullPointerExpection with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.</li>
</ul>
</div>

<div class="level3">
<ul>
<li>Connection property resultSetType was not used for PreparedStatement and CallableStatement.</li>
<li>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().</li>
<li>Classes DTCDatasource4 and PDatasource4 were added for 100% JDBC 4.0 compliance.</li>
</ul>
</div>

<div class="level3">
<ul>
<li>Empty strings in CacheRowSet changed to null values after serialization.</li>
<li>A very rare "ArrayIndexOutOfBoundsException: Array index out of
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 &quot;java.io.FileNotFoundException: //./pipe/sql/query (All pipe instances are busy)&quot; on getConnection().

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

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

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

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

A memory leak in the DTCProxy was fixed.

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

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

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

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

- Added property packetSize and changed the default from server default to 8000.
- Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.
- Added JDBC URL property sqlxml.
- The method getClob() returned wrong data for data type VARCHAR(MAX).
- Changed the default value of imptran for PDataSource to false.


- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).
- A regression with ParameterMetaData note setting parameters was fixed.
- An ArrayIndexOutOfBoundsException on ResulSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.
- A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

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

- A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.
<li><div class="li"> Does not use the package sun.misc.* on Java 6 and newer.</div></li>
</ul>

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

<div class="level3">
<ul>
<li class="level1"><div class="li"> Added support for VNN (virtual network names) together with instance names.</div></li>
<li class="level1"><div class="li"> Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.</div></li>
<li class="level1"><div class="li"> No longer write the password to the driver log.</div></li>
<li class="level1"><div class="li"> Add the interface NtlmHandshake to support an external NTLM login source.</div></li>
</ul>
</div>
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AdventNet SNMPV3 Release 2.2.1

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

dk.brics.automaton
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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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crc/plugin/lib-xml/lib/jdom.jar

/*--

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

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

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(For 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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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

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work, in isolation, is not a derivative work of the Library, and

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

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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse

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

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

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

during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference

directing the user to the copy of this License. Also, you must do one

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a) Accompany the work with the complete corresponding

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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,

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

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than the cost of performing this distribution.

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

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

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specified materials from the same place.

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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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Library" must include any data and utility programs needed for

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

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the materials to be distributed need not include anything that is

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

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components (compiler, kernel, and so on) of the operating system on

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which the executable runs, unless that component itself accompanies

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the executable.
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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

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***************************************************************************
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--------------------------------------------------------

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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.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>

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

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

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

https://repository.jboss.org/nexus

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

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

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

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

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

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

$ mvn test

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

$ mvn surefire-report:report

If you already have ran a test cycle, and you want to generate a report off the current reports, then you use the report-only goal, 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.

```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:

```bash
$ mvn -Pjgroups-tcp surefire-report:report
```

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

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

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

-Digroups.stack=tcp

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

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

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

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

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

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.

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You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

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...

<servers>
...

</settings>
1.3. Deploying a release to a live repository
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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
==========

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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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.

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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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```

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

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----------------------------
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.

```
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```

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

```
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```

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

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

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

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

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

   d) If a facility in the modified Library refers to a function or a
      table of data to be supplied by an application program that uses
      the facility, other than as an argument passed when the facility
      is invoked, then you must make a good faith effort to ensure that,
      in the event an application does not supply such function or
      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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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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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
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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.)

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
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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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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding

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

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

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

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.

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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If distribution of object code is made by offering access to copy

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, 1 April 1990
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@version

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<TITLE>Sentry Spelling Checker Engine - Specimen License Agreement</TITLE>
<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</P>
</TD>
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You are here: <A HREF="./..\index.html">Home</A> &gt; <A HREF="./products.html">Products</A> &gt; <A HREF="../index.html">Developer tools</A> &gt; Sentry Spelling Checker Engine &gt; Specimen License Agreement

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- Sample source code included in the "examples" directory of the Software Development Kit, provided the source code is compiled into a software program and is not redistributed in human-readable form.</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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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.:
or extract the jar in the directory of the applet.

All drivers support the following SQL Server versions:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012
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<li class="level1"><div class="li"> Microsoft SQL Server 2008</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 2005</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 2000</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 7.0</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 6.5</div></li>
</ul>

with all Service Packs (32 bit / 64 bit)

<p>
</p>

</div>

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

<dl class="table">
<dt class="col0 leftalign">  </dt><dt class="col1"> UNA </dt><dt class="col2"> SPRINTA </dt><dt class="col3"> OPTA </dt><dt class="col4"> MERLIA </dt>
<tr class="row0">
<td class="col0"> JDBC <abbr title="Application Programming Interface">API</abbr> </td><td class="col1"> 1.22 </td><td class="col2"> 2.0 </td><td class="col3"> 2.0+ </td><td class="col4"> 4.0 </td>
</tr>
<tr class="row1">
<td class="col0"> PreparedStatement pooling </td><td class="col1"> Yes </td><td class="col2"> Yes </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row2">
<td class="col0"> Scrollable and Updatable ResultSets </td><td class="col1"> - </td><td class="col2"> Yes </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row3">
<td class="col0"> Connection Pooling </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row4">
<td class="col0"> DataSource </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row5">
<td class="col0"> Pooled Driver with Internal Pooling </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
</dl>
A more complete list can be found at: \(<br/><a href="http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features" target="_blank">http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features</a>\)

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>
<pre class="code bash">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.
</pre>

<h4 id="for-microsoft-sql-server-70">For Microsoft SQL Server 7.0:</h4>
<pre class="code bash">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.
</pre>

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:
<pre class="code bash">telnet &lt;hostname or ip address&gt; &lt;port number&gt;
</pre>

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

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

<p></p>
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

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

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

### 2.6 JDBC URL Subprotocols

<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. <a href="#jdbc-40-api">see character converting JDBC 4.0 API</a></td>
</tr>
<tr>
<td>jdbc:inetdae6: ....</td>
<td>SQL Server 6.5 compatible mode (passwords are transfered plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: ....</td>
<td>only for compatibility with older versions</td>
</tr>
</tbody>
</table>
2.7 JDBC URL Syntax of the driver

<table>
<thead>
<tr>
<th>JDBC URL Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetdae7:hostname:portnumber</td>
<td>with default port 1433</td>
</tr>
<tr>
<td>jdbc:inetdae7:hostname: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>&amp;#8211;&gt; with named pipes</td>
</tr>
<tr>
<td>jdbc:inetdae7:&lt;em&gt;servername/pipe/MSSQL$instancename/sql/query</td>
<td>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/poool/sql/query</li>
<li class="level1">jdbc:inetpool:jdbcam:inetdae7:www.inetsoftware.de:1433</li>
<li class="level1">jdbc:inetpool:jdbcam:inetdae7:localHost:1433</li>
<li class="level1">jdbc:inetpool:jdbcam:inetdae7://MyServer/poool/sql/query</li>
</ul>

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

<div class="level3">
<div class="table ">
<table class="inline">
<tr class="row0">
<th class="col0 leftalign">database</th>
<td class="col1 leftalign">default is the user default database</td>
</tr>
<tr class="row1">
<th class="col0 leftalign">language</th>
<td class="col1 leftalign">default is "" → SQL Server default language</td>
</tr>
<tr class="row2">
<th class="col0 leftalign">user</th>
<td class="col1 leftalign">the database user, if empty the current windows user is used</td>
</tr>
<tr class="row3">
<th class="col0 leftalign">password</th>
<td class="col1 leftalign">password of the database user</td>
</tr>
<tr class="row4">
<th class="col0 leftalign">charset</th>
<td class="col1 leftalign">see Character Converting</td>
</tr>
</table>
</div>
</div>
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</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;</td>
</tr>
<tr>
<td>secureLevel</td>
<td>default is 1; set the level of <a href="#the-driver-option-securelevel">Link: the-driver-option-securelevel</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>default is &quot;false&quot;;</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is &quot;true&quot;&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 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>
</tbody>
</table>
| useInsteadOfTrigger | default is &lt;#8220;false&amp;#8221;<br>&amp;#8220;true&amp;#8221; - in a query with multiple tables all are updated in one step<br>
with updateRow(). You need a INSTEAD OF trigger.

"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.
</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. </td></tr>
<tr class="row24">
<th class="col0 leftalign"> statusRequest </th><td class="col1 leftalign"> Set the mode with which the &lt;abbr title="Application Programming Interface">API</abbr> requests the status of a connection. There are 2 possible modes: * safe (default) - an additional round trip to the database is executed. * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel(). </td></tr>
<tr class="row25">
<th class="col0 leftalign"> fastbatch </th><td class="col1 leftalign"> default is true<br/>
Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false. </td></tr>
<tr class="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 &lt;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;.<br/>
</td></tr>
<table>
<thead>
<tr>
<th>instance</th>
<th>override the value in the JDBC URL, required the UDP port 1434</th>
</tr>
</thead>
<tbody>
<tr>
<td>port</td>
<td>override the value in the JDBC URL</td>
</tr>
<tr>
<td>failover</td>
<td>see chapter &quot;Failover on getConnection()&quot;</td>
</tr>
<tr>
<td>mars</td>
<td>Enables &quot;true&quot; or &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 jdbc4&lt;br/&gt;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 &lt;em&gt;jdbc4&lt;/em&gt; 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:

- append the properties to the URL like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch
- call method getConnection(String url, Properties info) from the driver manager.
You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

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

**Comments of the switches:**

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

- **SECURITYMODE=SQL**
  - Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non Windows program like Java.

- **DISABLENETWORKPROTOCOLS=0**
  - Enable the TCP/IP protocol

Eight examples are included in the download file.

An example to demonstrate how to connect and use the driver with the JDBC 1.22 interface. (This driver requires the JDBC 2.0 interface and a JDK 1.2 or higher)
This example shows the use of the PoolDriver. A driver with internal connection pooling.

How to create a connection with a datasource.

How to use the PooledConnection of the driver.

This demonstrates the use of the PoolManager i-net PLEXA™ is an example of a pool manager. i-net 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.
4. Escape Clauses

The driver implements all escape clauses as follows:

4.1 Date and Time

```java
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'&039;}"
```

4.2 Stored Procedures

```java
{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')}");
```

4.3 Functions

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

<pre class="code">
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}
</pre>

Time and Date Functions

<pre class="code">
{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn 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>
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}</pre>
<pre class="code">{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 
&quo;charset=YourCharSet' to the url.
</p>
<p>

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:
&amp;quot;test string'.getBytes( charset );
</p>
<p>
If this line executes correctly the character set is available in the current VM.<br/>

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(nvarchar field) VALUES( N'national text' )";

<h3 id="jdbc-40-api">5.1 JDBC 4.0 API</h3>

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.

<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 "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.

<ul>
<li>-8 - NCHAR</li>
<li>-9 - NVARCHAR</li>
<li>-10 - NTEXT</li>
<li>-11 - UNIQUEIDENTIFIER</li>
<li>-150 - SQL_VARIANT</li>
</ul>

<h3>6.2 New Data types with SQL Server 2005</h3>

SQL Server 2005 supports the following new data types:

<ul>
<li>XML</li>
</ul>

and the enhanced data types:

<ul>
<li>Varchar(max)</li>
<li>NVarchar(max)</li>
<li>Varbinary(max)</li>
</ul>

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.

<h3 id="new-data-types-with-sql-server-2008">6.3 New Data types with SQL Server 2008</h3>

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

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

This is the precedence order for the MS SQL Server data types:

- sql_variant (highest)
- datetime
- smalldatetime
- float
- real
- decimal
- money
- smallmoney
- bigint
- int
- smallint
- tinyint
- bit
- ntext
- text
- image
- timestamp
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>Method</td>
<td>Type</td>
<td>Max Size</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>NVARCHAR</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>NTEXT</td>
<td>8000</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td>VARCHAR</td>
<td>8000</td>
</tr>
<tr>
<td>setClob</td>
<td>NVARCHAR</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>NTEXT</td>
<td>8000</td>
</tr>
<tr>
<td>setCharacterStream</td>
<td>VARCHAR</td>
<td>8000</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</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td>..</td>
</tr>
<tr>
<td>setBinaryStream</td>
<td>IMAGE</td>
<td>..</td>
</tr>
<tr>
<td>setBlob</td>
<td>IMAGE</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, 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.

7.4 Numeric columns and SQL Server 2000 SP4

BigDecimal parameter send by driver will be processed up to 20% slower. This happens if parameter definition send by Driver 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 behavior 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>
  <tr>
    <th>concurrency type</th>
    <th>Description</th>
  </tr>
  <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 unmodified by another user during the transaction.</td>
  </tr>
</table>

Concurrency type is one of the following concurrency control options.
unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, 
nonimage values if timestamps are not available. </td>
</tr>
<tr class="row3">
<td class="col0">CONCUR_UPDATABLE+1</td>
<td class="col1">Intent to update locking. Places an update 
intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are 
released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction 
is closed. </td>
</tr>
<tr class="row4">
<td class="col0">CONCUR_UPDATABLE+2</td>
<td class="col1">Optimistic concurrency control using 
values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes 
are detected by comparing all nontext, nonimage values. </td>
</tr></table></div>

<h2 id="failover">10. Failover</h2>

<h3 id="failover-on-getconnection">10.1 Failover on getConnection()</h3>

<p>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.</p>

<p>For example:<br/>
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2<br/>
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500<br/>
</p>

<p>To set more than one failover possibility, use the following syntax:<br/>
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherH
ost&amp;port2=AFurtherPort<br/>
host[N] and port[N] must form pairs, otherwise they will be ignored.</p>

<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 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 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.


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>
</tbody>
</table>
failoverListener &lt;td&gt; 30 &lt;/td&gt; &lt;td&gt; property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished. &lt;/td&gt;

failoverListener &lt;td&gt; - &lt;/td&gt; &lt;td&gt; 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. &lt;/td&gt;


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:
<span class="co1">//receive a Connection</span>
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();
<ol>
<li class="level1">
<div class="li">
<strong>Modify the database</strong>
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>
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>
You can also change it with the following Java line:<br />
`conn.createStatement().execute(&quot;SET TRANSACTION ISOLATION LEVEL SNAPSHOT&quot;);`<br />
</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.setTransactionIsolation(4096);`<br />
</div>
</li>
</ol>

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

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

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

<p>There are different solutions for enabling the logging of the driver. They are as follows:</p>

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream(System.out)</td>
<td>This method is deprecated but it works with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setLogStream(new FileOutputStream(&quot;c:\driver.log&quot;))</td>
<td>DriverManager.setLogStream(new FileOutputStream(&quot;c:\driver.log&quot;))</td>
<td>This method is deprecated but it works with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(PrintWriter)</td>
<td>DriverManager.setPrintWriter(System.out)</td>
<td>This method is deprecated but it works with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(new PrintWriter(System.out))</td>
<td>DriverManager.setPrintWriter(new PrintWriter(System.out))</td>
<td>This method is deprecated but it works with all JDBC drivers.</td>
</tr>
</tbody>
</table>
WebLogic: Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC

```xml
<attribute name="LoggingEnabled" value="true" />
```

myDataSource.setPrintWriter(new PrintWriter(System.out))

Enable the logging only for connections from this DataSource

jdbc:inetdae7=localhost?logging=true

13. Support

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

The latest support information are available at: 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]Operator type clash: ntext is incompatible with int
  - possible workarounds are:
    - set integer values instead of Strings
    - use JDBC URL - 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 <abbr title="Uniform Resource Locator">URL</abbr> are not supported because this are not supported by the SQL Server.

The following methods are not supported by this release:

- `PreparedStatement.setArray(int i, Array x)`
- `PreparedStatement.setRef(int i, Ref x)`
- `PreparedStatement.setURL=?int-i-`<abbr title="Uniform Resource Locator">URL</abbr>-`x``
- `CallableStatement.getObject(int i, java.util.Map map)`
- `CallableStatement.getRef(int i)`
- `CallableStatement.getArray(int i)`
- `CallableStatement.getURL=?int-i``
- `All method with a named parameter.`
- `DatabaseMetaData.getUDTs(String catalog, String schemaPattern, String typeNamePattern, int[] types)`
- `DatabaseMetaData.getAttributes(String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)`
- `ResultSet.getObject(int i, java.util.Map map)`
- `ResultSet.getRef(int i)`
- `ResultSet.getArray(int i)`
- `ResultSet.getURL=?int-i``
- `ResultSet.updateArray(int i, Array x)"`
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.
This is only needed for SQL Server 2000. This is not required for SQL Server 2005.

<ul>
<li>Run the Internet Services Manager that is located in the Administrative Tools folder.</li>
<li>Right-click on the Default Web Site node for the server and select &quot;Properties&quot; from the context menu.</li>
<li>Click on the &quot;Directory Security&quot; tab.</li>
<li>Click on the &quot;Server Certificate&quot; button. A wizard should appear.</li>
<li>Click the &quot;Next&quot; button.</li>
<li>The &quot;Create a new certificate&quot; radio button should be selected. Click the &quot;Next&quot; button.</li>
<li>The &quot;Prepare request now, but send it later&quot; radio button should be selected. Click the &quot;Next&quot; button.</li>
<li>Click the &quot;Next&quot; button.</li>
<li>Enter your organization name and unit and click the &quot;Next&quot; button.</li>
<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.</li>
<li>Enter your State and City. Click the &quot;Next&quot; button.</li>
<li>Accept the default file name of c:\certreq.txt and click the &quot;Next&quot; button.</li>
<li>Click the Next button, then click Finish.</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 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'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.
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 "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>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
<tr>
<td>3</td>
<td>Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</td>
</tr>
</tbody>
</table>

17. Changes

17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)
- For XA support the extended procedures was replaced with a NT-Service.
- The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.
17.2 Changes in Version 5.01 (MERLIA 2.01)  (5. Feb 2003)

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.

- ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).

- A bug with wasNull() and getXXX( x, Calendar) was fixed.

- A bug with isFirst() in CachedRowSet was fixed.

- A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

- A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

- A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

- The error &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 &quot;money&quot;.
A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Method PoolManager.closeConnection(Connection) was added.

Errors in ResultSet.close() are caught now.

A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.

The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.

Connections with a read timeout are removed from the connection pool.

The return value of supportsStatementPooling() was changed.

A bug with a DataSource not from the JNDI and equals() was fixed.

The method getParameterMetaData() was implemented.

The methods setImpltran() and getImpltran() were added.

Timestamp objects can be created (read) faster with JDK 1.4.x now.

A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.

Datetime formats with short month and days like '1999-5-5' are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.
The AsciiStream always sends Ascii data (also in unicode mode).
The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.
The call setObject(x, value, Types.BIT) accepts numeric Strings now.
The detecting of the default codepage of the SQL Server 2000 was changed.
The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.
The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.
The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.
The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.
Clob and Blob support for updateObject(..) was added.
The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.
CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.
Support for registerOutParameter(x, Types.BOOLEAN) was added.
The synchronized from Connection.close() was removed.

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 (File Transfer Protocol"\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.
<ul class="level3">
<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 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 class="level1">
 Some changes on the time behavior after a call of cancel() or if a query timeout
 occurs.</li>

<li class="level1">
 The timing for resolving the instance name was changed.</li>

<li class="level1">
 The property WSID was added.</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 class="level1">
 Support for the data type BIGINT in the method updateObject(i,x) was
 added.</li>

<li class="level1">
 The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility
 with other MS tools.</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 class="level1">
 An ArrayIndexOutOfBoundsException with the setXXX() methods of the
 RowSets was fixed if the parameter was not set in numerical order.</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>

<ul class="level3">
<li class="level1">
 Connection failover was expanded to set more than one failoverhost.</li>

<li class="level1">
 Added set Logging(String) and setProperty(String) to class
</li>
</ul>
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>

<ul>
<li class="level1"><div class="li"> Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.</div>
</li>
<li class="level1"><div class="li"> The bug in DataSource overwriting the original host/port information in failover case has been fixed.</div>
</li>
<li class="level1"><div class="li"> The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.</div>
</li>
<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>
<li class="level1"><div class="li"> Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.</div>
</li>
<li class="level1"><div class="li"> Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433</div>
</li>
<li class="level1"><div class="li"> Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.</div>
</li>
<li class="level1"><div class="li"> Method PoolManager.dispose() was added.</div>
</li>
<li class="level1"><div class="li"> The exception &quot;Unknown TDS packet type: 18&quot; will not be thrown
Performance increasing: executing a prepared statement runs faster at the first execute call.

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

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

Log output extended with information about Connection ID.

Performance improvement in ResultSet class.

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

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

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.\</div>
</li>
<li class="level1"><div class="li"> Since version 6.05: If a statement was already prepared, executing it as batch failed.\</div>
</li>
<li class="level1"><div class="li"> SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().\</div>
</li>
<li class="level1"><div class="li"> Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.\</div>
</li>
<li class="level1"><div class="li"> PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[], String and InputStreamReader values in addition.\</div>
</li>
<li class="level1"><div class="li"> since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.\</div>
</li>
<li class="level1"><div class="li"> since 6.04.12, prepare end execute statements didn’t 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"> Adapted meta data requests to changes made in final SQL Server 2005.\</div>
</li>
<li class="level1"><div class="li"> In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.\</div>
</li>
</ul>


<li class="level1"><div class="li"> When the PreparedStatement contained a character sequence in SQL like \\
&#039;&amp;#039;&amp;#8211;&amp;#039;&amp;#039; , the parameters following were ignored.\</div>
</li>
<li class="level1"><div class="li"> Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC URL)\</div>
</li>
<li class="level1"><div class="li"> The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.\</div>
</li>
<li class="level1"><div class="li"> If a statement requested a massive amount of columns, sometimes the Exception &quot;Unknown data type:&quot;... would occur. This is fixed now.\</div>
</li>
Since Version 6.05 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.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 Application Programming Interface API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 Megabyte are send as bulk. Now you can save data until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

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

AutoClose was added.

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

A bug with the PoolManager inactive timeout was fixed.
The exception "sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid." on ResultSets with Statement.setFetchSize() was fixed.

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

The warnings of getTransactionIsolation() are ignored now.

The bulk transfer limit was reduced from 200 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.

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The property typeMapping was added.

JDBC4 interface was added for i-net MERLIA.
A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.

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

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

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

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

Some protocol violations with the data type XML were fixed.

The methods insertRow() and updateRow() with the SQL Server 2005 SP2 could throw the exception "Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000
[xyz2005]Could not find server &039;xyz2005&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 inetda7a 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 identification of 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' 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' 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.

<ol class="level3">

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

<li class="level1"><div class="li"> The error &quot;Fatal error on prepare. Connection will be closed.&quot; which occurred with a very fast cancel() was fixed.</div></li>

<li class="level1"><div class="li"> The instance name is now resolved multiple times on a failover. Before, the TCP/IP port of the first instance was used.</div></li>

<li class="level1"><div class="li"> The error message &quot;Could not find prepared statement with handle 0.&quot; was fixed.</div></li>

<li class="level1"><div class="li"> The return value of functions was always NULL with SQL Server 2005. This was a regression in version 6.07.</div></li>

<li class="level1"><div class="li"> The method DataSource.setUrl was added.</div></li>

<li class="level1"><div class="li"> The call ResultSet.findColumn( &quot;&quot; ) did not find empty columns.</div></li>

<li class="level1"><div class="li"> A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error &quot;Error converting data type decimal to decimal.&quot;</div></li>

<li class="level1"><div class="li"> Some error handling was added for connecting to prevent problems in stress conditions.</div></li>

<li class="level1"><div class="li"> The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.</div></li>

<li class="level1"><div class="li"> A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.</div></li>

<li class="level1"><div class="li"> There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.</div></li>

</ol>


<ol class="level3">

</ol>
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().

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 DTCPProxy was fixed.

Long-running XA transactions were rolled back after 10 minutes under very rare
<div class="level3">
<ul>
<li class="level1"><div class="li">Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.</div></li>
<li class="level1"><div class="li">Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div></li>
<li class="level1"><div class="li">Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</div></li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li">Added property packetSize and changed the default from server default to 8000.</div></li>
<li class="level1"><div class="li">Added support for setObject( x, String, Types.NVARCHAR ) with inetda7a 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 conditions.</div></li>
</ul>
</div>
inetdae6 and inetdae7a).</li>
</ul>
<li class="level1"><div class="li"> A regression with ParameterMetaData note setting parameters was fixed.</li>
</ul>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a
starting next() for a scrolling ResultSet was fixed.</li>
</ul>
<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.</li>
</ul>
</div>

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

<div class="level3">
<ul>
<li class="level1"><div class="li"> Does not use the package sun.misc.* on Java 6 and newer.</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.</li>
</ul>
<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.</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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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.bricks.automaton
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Anders Moeller
amoeller@brics.dk

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

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src/plugin/clustering-carrot2/lib/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/clustering-carrot2/lib/Jama-1.0.2.jar

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src/plugin/protocol-ftp/lib/commons-net-1.2.0-dev.jar
ASF

src/plugin/ontology/lib/jena-2.1.jar

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4.86 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 assoicate 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.
     */
    public void setDigester(Digester digester) {
        this.digester = digester;
    }

    /**
     * Return the namespace URI with which this Rules instance is associated.
     */
    public String getNamespaceURI() {
        return namespaceURI;
    }

    /**
     * Set the namespace URI with which this Rules instance is associated.
     */
    public void setNamespaceURI(String namespaceURI) {
        this.namespaceURI = namespaceURI;
    }

    // ----------------------------------------- Other Methods

    /**
     * Add a rule for the namespace specified by <code>namespace</code>.
     * @param namespace The namespace to add rules for.
     */
    public void addRule(String namespace) {
        /*
         * Add the rules to the digester.
         */
        digester.addRules(new AbstractRuleImpl()
            .setRuleClass(RuleImpl.class)
            .setNamespaceURI(namespace));
    }

    /**
     * Add a rule for the namespace specified by <code>namespace</code>.
     * @param namespace The namespace to add rules for.
     */
    public void registerRule(String namespace) {
        /*
         * Set the namespace URI to the namespace specified by <code>namespace</code>.
         */
        namespaceURI = namespace;
        digester.setNamespaceURI(namespace);
    }

    // ----------------------------------------- Inner Classes

    /**
     * AbstractRuleImpl provides basic services for <code>Rules</code> implementations.
     * Extending this class should make it easier to create a <code>Rules</code> implementation.<p>
     * <code>AbstractRuleImpl</code> manages the <code>Digester</code>
     * and <code>namespaceUri</code> properties.
     * If the subclass overrides { @link registerRule} (rather than { @link add}),
     * then the <code>Digester</code> and <code>namespaceURI</code> of the <code>Rule</code>
     * will be set correctly before it is passed to <code>registerRule</code>.<p>
     * The subclass can then perform whatever it needs to do to register the rule.</p>
     * <p>
     * @since 1.5
     */
    abstract public class AbstractRuleImpl {

        // ------ Fields

        /**
         * Digester using this <code>Rule</code> instance.
         */
        private Digester digester;

        /**
         * Namespace uri to assoicate with subsequent <code>Rule</code>'s.
         */
        private String namespaceURI;

        // ------ Properties

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

        /**
         * Set the Digester instance with which this Rule instance is associated.
         */
        public void setDigester(Digester digester) {
            this.digester = digester;
        }

        /**
         * Return the namespace URI with which this Rule instance is associated.
         */
        public String getNamespaceURI() {
            return namespaceURI;
        }

        /**
         * Set the namespace URI with which this Rule instance is associated.
         */
        public void setNamespaceURI(String namespaceURI) {
            this.namespaceURI = namespaceURI;
        }

    }
* @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();
}

/* $Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching $
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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 <code>Log</code> 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);
            int nextMatch = basePattern.indexOf(nextRegex, baseAt);
            while (nextMatch != -1) {
                if (log.isTraceEnabled()) {
                    log.trace("Searching for next " + nextRegex + " char");
                }
                if (match(basePattern, regexPattern, nextMatch, regexAt)) {
                    return true;
                }
            }
    }
    return false;
}

// 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);
        int nextMatch = basePattern.indexOf(nextRegex, baseAt);
        while (nextMatch != -1) {
            if (log.isTraceEnabled()) {
                log.trace("Searching for next " + nextRegex + " char");
            }
            if (match(basePattern, regexPattern, nextMatch, regexAt)) {
                return true;
            }
        }
    }
    return false;
}
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;


4.87 commons-digester3 3.2

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- The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" which is an adapted version of "OrekitMessagesTest" test class for the Orekit library
- The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator" has been imported from the Orekit space flight dynamics library.

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4.107 concurrentlinkedhashmap-lru 1.4

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4.109 crimson 1.1.1

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JUnit test library (junit-3.8.1.jar)

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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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4.136 google-api-services-youtube-v3-rev136

1.2

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4.137 google-gson 2.3

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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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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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The primary ANTLR guy:

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<thirdparty-licenses>
  <module name='ant'
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   description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'
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</module>
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   description='Java logging framework (runtime)'>
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   description='ANT (compile time), needed for generation of test reports'>
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   description='Used for unit testing'>
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</module>

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   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>
</thirdparty-licenses>

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JUnit test library (junit-3.8.1.jar)

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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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more 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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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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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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</module>

<module name='byteman-submit'
    licenseType='LGPL 2.1'
    version='2.1.0'
    projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-submit.jar' />
</module>

<module name='creative-commons'
    licenseType='creative-commons'
    version='2.5'
    projectHome='http://creativecommons.org/licenses/by/2.5/'
    description='Annotations of JCIP'>
  <jar name='none (part of src tree: org.jgroups.annotations)' />
</module>

<module name='log4j'
    licenseType='apache-2.0'
    version='1.2.14'
    projectHome='http://logging.apache.org/
    description='Java logging framework (runtime)'>
  <jar name='log4j.jar' />
</module>

<module name='serializer'
    licenseType='apache-2.0'
    version='1.6.5'
    projectHome='http://ant.apache.org/
    description='ANT (compile time), needed for generation of test reports'>
  <jar name='serializer.jar' />
</module>

<module name='testng'
    licenseType='apache-2.0'
    version='6.8'
    projectHome='http://www.testng.org'
    description='Used for unit testing'>
  <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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JUnit test library (junit-3.8.1.jar)

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JUnit test library (junit-3.8.1.jar)

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The specification of DOM Level 3’s various parts is at:
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  http://www.w3.org/2004/REC-DOM-Level-3-LS-20040407/
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The specification of DOM Level 2’s various parts is at:
  http://www.w3.org/2000/REC-DOM-Level-2-Events-20001113/
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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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4.190 itext 2.1.5

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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>
 */
public class Anchor extends Phrase {

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

    // member variables

    /** 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>
* @paramfonta <CODE>Font</CODE>
*/
public Anchor(String string, Font font) {
    super(string, font);
}

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

/**
* Constructs an <CODE>Anchor</CODE> with a certain <CODE>Phrase</CODE>.
* @param phrase a <CODE>Phrase</CODE>
*/
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) throws DocumentException {
    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));
        } 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 a name
 */
public String getName() {
    return name;
}

/**
 * Gets the reference of this <CODE>Anchor</CODE>.
 * @return a reference
 */
public String getReference() {
    return reference;
}

/**
 * Gets the reference of this <CODE>Anchor</CODE>.
 * @return an <CODE>URL</CODE>
 */
public URL getUrl() {
    try {
        return new URL(reference);
    }
    catch(MalformedURLException mue) {
        return null;
    }
}

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(1)

ExceptionConverter:
The original version of this class was published in an article by Heinz Kabutz. Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US "This material from The Java(tm) Specialists' Newsletter by Maximum Solutions (South Africa). Please contact Maximum Solutions for more information.

(2)

SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt: http://www.javaworld.com/javaworld/javatips/jw-javatip128.html Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

(3)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares,
but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was
added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
and some other TIFF related code is derived from LIBTIFF:

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*/
package org.apache.ivy.core.module.descriptor;

public class License {
    private String name;

    private String url;

    public License(String name, String url) {
        this.name = name;
        this.url = url;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }
}

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jane16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters
in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement `Replaceable` in their text representation class.

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@see Replaceable
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@stable ICU 2.0

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*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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### 4.207 jackson-dataformat-cbor 2.9.6

### 4.208 jackson-jaxrs 1.9.13

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4.213 jackson-module-jaxb-annotations 2.9.6

4.214 jackson-xc 1.9.13
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4.215 jai_core 1.1.3 1.1.3

4.216 jakarta-oro 2.0.0

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1.9.0

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1.1

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4.245 javax.xml.soap API_FactoryFinder.java

1.3.7

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

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

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

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

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

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

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

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

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

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

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, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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

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Preamble

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The licenses for most software are designed to take away your

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freedom to share and change it. By contrast, the GNU General Public

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Licenses are intended to guarantee your freedom to share and change

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free software--to make sure the software is free for all its users.

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This license, the Lesser General Public License, applies to some

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specially designated software packages--typically libraries--of the

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Free Software Foundation and other authors who decide to use it. You

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can use it too, but we suggest you first think carefully about whether

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this license or the ordinary General Public License is the better

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strategy to use in any particular case, based on the explanations below.

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When we speak of free software, we are referring to freedom of use,

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not price. Our General Public Licenses are designed to make sure that

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you have the freedom to distribute copies of free software (and charge

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for this service if you wish); that you receive source code or can get

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it if you want it; that you can change the software and use pieces of

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it in new free programs; and that you are informed that you can do

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these things.

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To protect your rights, we need to make restrictions that forbid

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distributors to deny you these rights or to ask you to surrender these

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rights. These restrictions translate to certain responsibilities for

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you if you distribute copies of the library or if you modify it.

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For example, if you distribute copies of the library, whether gratis

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or for a fee, you must give the recipients all the rights that we gave

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you. You must make sure that they, too, receive or can get the source

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code. If you link other code with the library, you must provide

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complete object files to the recipients, so that they can relink them

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with the library after making changes to the library and recompiling

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it. And you must show them these terms so they know their rights.

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

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

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restrictive license from a patent holder. Therefore, we insist that

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is quite different from the ordinary General Public License. We use

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libraries into non-free programs.

When a program is linked with a library, whether statically or using

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General Public License therefore permits such linking only if the

entire combination fits its criteria of freedom. The Lesser General

Public License permits more lax criteria for linking other code with

the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General

Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License. In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU

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

system.

Although the Lesser General Public License is less protective of the

users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run

that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must
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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

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and installation of the library.

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Activities other than copying, distribution and modification are not

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covered by this License; they are outside its scope. The act of

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running a program using the Library is not restricted, and output from

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such a program is covered only if its contents constitute a work based

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on the Library (independent of the use of the Library in a tool for

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writing it). Whether that is true depends on what the Library does

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and what the program that uses the Library does.

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1. You may copy and distribute verbatim copies of the Library's

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complete source code as you receive it, in any medium, provided that
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appropriate copyright notice and disclaimer of warranty; keep intact

all the notices that refer to this License and to the absence of any

warranty; and distribute a copy of this License along with the

Library.

You may charge a fee for the physical act of transferring a copy,

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2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,

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in the event an application does not supply such function or

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table, the facility still operates, and performs whatever part of

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its purpose remains meaningful.

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(For example, a function in a library to compute square roots has

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a purpose that is entirely well-defined independent of the

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application. Therefore, Subsection 2d requires that any

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application-supplied function or table used by this function must

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

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root function must still compute square roots.)

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These requirements apply to the modified work as a whole. If

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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

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distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
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Once this change is made in a given copy, it is irreversible for
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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
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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 contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The

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

If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline

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

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

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

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding

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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

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

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

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For an executable, the required form of the "work that uses the

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, 1 April 1990
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That's all there is to it!

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freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd

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

FreeMarker 1.x was released under the LGPL license. Later, by
community consensus, we have switched over to a BSD-style license. As
of FreeMarker 2.2pre1, the original author, Benjamin Geer, has
relinquished the copyright in behalf of Visigoth Software Society.
With FreeMarker 2.3.21 the license has changed to Apache License, Version 2.0, and the owner has changed from Visigoth Software Society to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel Dekany, and Jonathan Revusky.

1. WORKING WITH MAVEN
==================================

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

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

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

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

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

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

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

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

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:
java.lang.NullPointerException
    at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
    at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
    at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
    at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
...

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.
* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

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

1.2. Setting up your username and password to make releases and snapshot release
__________________________________________________________

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

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


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

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

The JBoss repository will hold this release in a staging directory which can be accessed by logging in to https://repository.jboss.org/nexus

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

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

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as a filter, and is used to select which tests are 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
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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 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.

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

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

-Djgroups.stack=tcp

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

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

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

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

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

1. WORKING WITH MAVEN
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* Java 5.0 and above
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Maven will create a target/ directory under the root for the creation of output at every stage.

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The "Library", below, refers to any such software library or work
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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MySQL Connector/J 5.1.36

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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.

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

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

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

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

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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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8021
Open Source Used in Open Source Used in Unified Contact Center Enterprise 12.0
<p>Version: 8.06<br>Last Modified: 15. Apr 2015</p>

</div>

<ol class="level2">

<li class="level1"><div class="li"><span class="li"><a href="#installation" class="inlinetoc">1. Installation</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#using-the-driver-in-a-java-application" class="inlinetoc">1.1 Using the Driver in a Java Application</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#using-the-driver-in-an-applet" class="inlinetoc">1.2 Using the Driver in an Applet</a></span></div>
</li>
</ul>
</li>

<li class="level1"><div class="li"><span class="li"><a href="#getting-started" class="inlinetoc">2. Getting Started</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#sql-server-java-and-jdbc-versions" class="inlinetoc">2.1 SQL Server, Java and JDBC Versions</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#implemented-features" class="inlinetoc">2.2 Implemented Features</a></span></div>
<ul class="inlinetoc">
<li class="level3"><div class="li"><span class="li"><a href="#for-microsoft-sql-server-65" class="inlinetoc">For Microsoft SQL Server 6.5</a></span></div></li>
<li class="level3"><div class="li"><span class="li"><a href="#for-microsoft-sql-server-70" class="inlinetoc">For Microsoft SQL Server 7.0</a></span></div>
</li>
</ul>
</li>
<li class="level2"><div class="li"><span class="li"><a href="#check-host-name-and-port-number-of-your-server" class="inlinetoc">2.3 Check Host Name and Port Number of Your Server</a></span></div>
<ul class="inlinetoc">
<li class="level3"><div class="li"><span class="li"><a href="#for-microsoft-sql-server-65" class="inlinetoc">For Microsoft SQL Server 6.5</a></span></div></li>
<li class="level3"><div class="li"><span class="li"><a href="#for-microsoft-sql-server-70" class="inlinetoc">For Microsoft SQL Server 7.0</a></span></div>
</li>
</ul>
</li>
<li class="level2"><div class="li"><span class="li"><a href="#login-types" class="inlinetoc">2.4 Login Types</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#driver-class-name" class="inlinetoc">2.5 Driver Class Name</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#jdbc-url-subprotocols" class="inlinetoc">2.6 JDBC URL Subprotocols</a></span></div>
</li>
<li class="level2"><div class="li"><span class="li"><a href="#jdbc-url-syntax-of-the-driver" class="inlinetoc">2.7 JDBC URL Syntax of the driver</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#jdbc-url-syntax-of-the-pooled-driver" class="inlinetoc">2.8 JDBC URL Syntax of the Pooled Driver</a></span></div>
</li>
<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>
</ul>
</ol>
2.10 Connections to the MSDE 2000 Release A

2.11 Connection Examples

- ClassicDriver.java
- PooledDriver.java
- WithDataSource.java
- WithPoolDataSourece.java
- WithJDBCRowSet.java
- WithJNDI.java
- WithJndiAndPoolManager.java
- Package sample.xa

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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
12. Debugging

13. Support

14. Documentation

15. Known problems

16. Using SSL connections

16.1. Create a Certificate Request

16.2. Create a Certificate with the Certificate Server

16.3. Installing a Certificate

16.4. Uninstalling a Certificate

16.5. Forcing Protocol Encryption

16.6. The Driver Option secureLevel

17. Changes

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

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

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

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

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)


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


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=...&quot; Codebase=&quot;...&quot; ARCHIVE=Merlia.jar 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>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>minimum required JDK version</td>
</tr>
</tbody>
</table>
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 </td><td class="col1"> 1.4 </td><td class="col2"> 3.0 + 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)
<table>
<thead>
<tr>
<th>JDBC API</th>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC</td>
<td>1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Multiple Open ResultSets per Statement - Yes

Resultset Holdability - Yes

A more complete list can be found at:
http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

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

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

For Microsoft SQL Server 6.5:

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

For Microsoft SQL Server 7.0:
Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

teilnet <span class="kw2">hostname</span> or <span class="kw2">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 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
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

- `<strong>com.inet.tds.TdsDataSource</strong>` This is a simple DataSource. Also named JDBC 1 DataSource.
- `<strong>com.inet.tds.PDataSource</strong>` This is pooled DataSource.
- `<strong>com.inet.tds.DTCDataSource</strong>` 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.

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

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Description</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. <a href="#jdbc-40-api">see character converting JDBC 4.0 API</a></td>
</tr>
<tr>
<td>jdbc:inetdae7a: hostname</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetpool: hostname</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

SQL Server 6.5 compatible mode (passwords are transfered plainly) |

2.7 JDBC URL Syntax of the driver

- `jdbc:inetdae7:hostname:portnumber` with default port 1433
- `jdbc:inetdae7:hostname?database=MyDb&amp;language=us_english` with properties
- `jdbc:inetdae7:hostname/instancename` with named instance
of MS SQL Server 2000 and 2005, required the UDP port 1434

</td>
</tr>
<tr class="row4">
<td class="col0">jdbc:inetdae7:servername/pipe/pipename | &amp;#8211;&gt; with named pipes | 
| jdbc:inetdae7:servername/pipe/MSSQL$instancename/sql/query</td>
<td class="col1">&amp;#8211;&gt; named instance
</td>
</tr>
</table>
</div>
</div>

<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:inetpool:inetdae7:[2002:d201:a413::d201:a413]:1433
- jdbc:inetpool:jdbc:inetdae7:localHost:1433
### 2.9 Implemented Driver Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>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>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sql7</code></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><code>secureLevel</code></td>
<td>Default is 1; set the level of security with SSL.</td>
</tr>
<tr>
<td><code>prepare</code></td>
<td>Default is &quot;true&quot;. PreparedStatements are prepared on the SQL Server.</td>
</tr>
<tr>
<td><code>prepareLiveTime</code></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><code>lastUpdateCount</code></td>
<td>Default is &quot;false&quot;. If the value is &quot;true&quot; then the method executeUpdate() should return the last update count. This property is helpful if you use PreparedStatements on tables with triggers. In this case the first update count is the count of the trigger. With this property you can receive the last update count which is ever the count of your UPDATE or INSERT expression. This property make problems with expression that return multiple update counts. In this case you receive also only the last update count.</td>
</tr>
<tr>
<td><code>loginTimeout</code></td>
<td>Override the value from DriverManager.getLoginTimeout().</td>
</tr>
<tr>
<td><code>queryTimeout</code></td>
<td>Default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td><code>JAVA_OBJECT</code></td>
<td>Default is &quot;true&quot;.</td>
</tr>
</tbody>
</table>
The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>dstsave</td>
<td>Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the API requests the status of a connection. There are 2 possible modes: * safe (default) - an additional round trip to the database is executed. * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()</td>
</tr>
<tr>
<td>fastbatch</td>
<td>Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize().</td>
</tr>
<tr>
<td>host</td>
<td>override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property &quot;instance&quot;.</td>
</tr>
<tr>
<td>instance</td>
<td>override the value in the JDBC URL, required the UDP port 1434</td>
</tr>
<tr>
<td>port</td>
<td>override the value in the JDBC URL</td>
</tr>
<tr>
<td>failover</td>
<td>see chapter &quot;Failover on getConnection()&quot;</td>
</tr>
<tr>
<td>mars</td>
<td>Enables (&quot;true&quot;) or disables (&quot;false&quot;) the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched on demand and not altogether. This property can be used when connecting to SQL Server 2005 only.</td>
</tr>
</tbody>
</table>
<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>

<p>There are three ways to put the properties to the driver:</p>

<ol>
<li>append the properties to the <abbr title="Uniform Resource Locator">URL</abbr> like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch</li>
<li>call method getConnection(String url, Properties info) from the driver manager.</li>
<li>create a DataSource and set the properties with the set methods.</li>
</ol>

<h3 id="connections-to-the-msde-2000-release-a">2.10 Connections to the MSDE 2000 Release A</h3>

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

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

<em>Comments of the switches:</em> Set the password for the sa account. This is required for Windows Server 2003.
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/>
<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">
<p>
How to create a connection with a datasource.
</p>
</div>
<p>How to use the PooledConnection of the driver.</p>

<p>This demonstrates the use of the PoolManager i-net PLEXA™. i-net PLEXA™ is an example of a pool manager. i-net PLEXA™ comes with i-net OPTA™.</p>

<p>How to use the JDBCRowSet from i-net software (i-net OPTA™).</p>

<p>This demonstrates the use of a DataSource with a JNDI directory.</p>

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

<pre class="code java">st = con.createStatement();
st.executeUpdate("{call MyProc('value')}");

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

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

&lt;/pre&gt;

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

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 TIMESTAMPAADD(interval, datetime, datetime2)}

</p>
interval may be one of the following:
</pre>
<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>
<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 <br/>&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; +<br/>sun.io.ByteToCharConverter.getDefault().getCharacterEncoding();&lt;br/&gt;<br/>or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;;)&lt;br/&gt;<br/>or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding();&lt;br/&gt;<br/></p>
<br/>
TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.&lt;br/&gt;
<p>You can test the availability of a character set with:<br/>&quot;test string&quot;.getBytes( charset );&lt;br/&gt;If this line executes correctly the character set is available in the current VM.&lt;br/&gt;
<p>The parameter charset is ignored on columns with nchar, nvarchar, and ntext. To save national characters with this column you need to use the character N. &lt;br/&gt;Example: &quot;INSERT INTO myTable(ntext field) VALUES( N'#039;national text' )&quot;</p>

</div>

<h3 id="jdbc-40-api">5.1 JDBC 4.0 API</h3>
<p>JDBC 4.0 &lt;abbr title="Application Programming Interface">API&lt;/abbr&gt; is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. PreparedStatement.setNString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support &lt;abbr title="American Standard Code for Information Interchange">ASCII&lt;/abbr&gt; characters only. If you need this compatibility then you have to use &quot;inetdae7a&quot; subprotocol.&lt;br/&gt;If you want all String setter functions support unicode characters, use &quot;inetdae7&quot; subprotocol.</p>
6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

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

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

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

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

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

-8 - NCHAR

-9 - NVARCHAR

-10 - NTEXT

-11 - UNIQUEIDENTIFIER

-150 - SQL_VARIANT

6.2 New Data types with SQL Server 2005
SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

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

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

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

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

- DATE
- TIME
- DATETIME2
The other new data types:

- GEOGRAPHY
- GEOMETRY
- 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
- geography
- geometry
- hierarchyid
- datetimeoffset
<li class="level1"><div class="li"> float</div></li>
<li class="level1"><div class="li"> real</div></li>
<li class="level1"><div class="li"> decimal</div></li>
<li class="level1"><div class="li"> money</div></li>
<li class="level1"><div class="li"> smallmoney</div></li>
<li class="level1"><div class="li"> bigint</div></li>
<li class="level1"><div class="li"> int</div></li>
<li class="level1"><div class="li"> smallint</div></li>
<li class="level1"><div class="li"> tinyint</div></li>
<li class="level1"><div class="li"> bit</div></li>
<li class="level1"><div class="li"> ntext</div></li>
<li class="level1"><div class="li"> text</div></li>
<li class="level1"><div class="li"> image</div></li>
<li class="level1"><div class="li"> timestamp</div></li>
<li class="level1"><div class="li"> uniqueidentifier</div></li>
<li class="level1"><div class="li"> nvarchar</div></li>
<li class="level1"><div class="li"> nchar</div></li>
<li class="level1"><div class="li"> varchar</div></li>
<li class="level1"><div class="li"> char</div></li>
<li class="level1"><div class="li"> varbinary</div></li>
<li class="level1"><div class="li"> binary (lowest)</div></li>

<h3 id="data-type-mapping">7.2 Data Type Mapping</h3>
If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>⇐ 4000 NVARCHAR &gt; 4000 NTEXT</td>
<td>⇐ 8000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td>setAsciiStream</td>
<td>⇐ 8000 VARCHAR &gt; 8000 TEXT</td>
<td>..</td>
</tr>
<tr>
<td>setClob</td>
<td>⇐ 4000 NVARCHAR &gt; 4000 NTEXT</td>
<td>⇐ 8000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td>setRow10</td>
<td></td>
<td>..</td>
</tr>
<tr>
<td>setRow11</td>
<td></td>
<td>..</td>
</tr>
<tr>
<td>setRow12</td>
<td></td>
<td>..</td>
</tr>
</tbody>
</table>
If you use a set method that maps to a data type with a higher precedence then the MS SQL Server will convert the value in the database column and not the parameter. The MS SQL Server can't use an existing index because it was created for a different data type. The execution will be slow.

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

Solutions:
1.) Use the correct set method.

2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks
like:<br/>
... cast(? as TINYINT)
</p>

3.) Change the data type of the table.
</p>

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 &quot;decimal(38,36)&quot;, the column type is &quot;numeric (7,0)&quot;. It seems that the index for the numeric column won’t used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. &quot;select * from testnumeric where a = CAST(? AS numeric(7,0))&quot;
</p>

8. Scrolling Cursor Types

<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_FORWARD_ONLY-1</td>
<td>Fast-Forward</td>
<td>A forward only cursor with activated optimization.</td>
</tr>
<tr>
<td>TYPE_FORWARD_ONLY</td>
<td>Forward-only</td>
<td>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</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>
<tr>
<td>TYPE_SCROLL_SENSITIVE</td>
<td>Keyset cursor</td>
<td>The fetch functions will allow all fetchtype values.</td>
</tr>
</tbody>
</table>
<tr class="row5">
<td class="col0">TYPE_SCROLL_SENSITIVE+1</td>
<td class="col1">Dynamic cursor</td>
<td class="col2">The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods return always false.</td>
</tr>
</table></div>
</div>

<h2 id="locking-and-concurrency-control">9. Locking and Concurrency Control</h2>

<p>Concurrency type is one of the following concurrency control options.</p>

<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>

<h2 id="failover">10. Failover</h2>
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:

Set a FailoverListener via Connection properties:

example URLs:

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

- `com.inet.pool.PoolDriver`
- `com.inet.ora.PDataSource`
- `com.inet.tds.PDataSource`
- `com.inet.syb.PDataSource`
- `com.inet.drda.PDataSource`

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

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

//add a FailoverListener
FailoverListener fl = new MonitoredFailover.CounteredFailoverListener(99);
(TAFConnection con) .addFailoverListener(fl);
```
<pre class="br0">};

//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>

<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>

- **Modify the database**
  You can modify the database with the following SQL statement:<br/>
  ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON<br/>

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

- **Executing a statement**
  You can also change it with the following Java line:<br/>
  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:<br/>
  conn.setTransactionIsolation(4096);
If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream( System.out );</td>
<td>This method is deprecated but it works with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setLogStream( new FileOutputStream(&quot;c:;;driver.log&quot;) );</td>
<td>DriverManager.setLogStream( new PrintWriter( System.out ) );</td>
<td>work not with JDBC 1.22 driver like i-net UNA</td>
</tr>
<tr>
<td>Application Server &lt;abbr&gt; GUI &lt;/abbr&gt;</td>
<td>WebLogic:&lt;br&gt;Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC&lt;br&gt;JBoss:&lt;br&gt;You can set it for every DataSource in the config file with:&lt;br&gt;....&lt;br/&gt;&lt;/attribute&gt;&lt;/attribute&gt;&lt;br/&gt;</td>
<td>enable the logging only for connections from this DataSource</td>
</tr>
<tr>
<td>JDBC &lt;abbr&gt; URL &lt;/abbr&gt; option &quot;logging=true&quot;</td>
<td>jdbc:inetdae7:localhost?logging=true</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
<p>You can find more documentation at:<br/></p>
http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm</div>

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

<ul>
<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:</li>
<li> set integer values instead of Strings</li>
<li> use JDBC URL &quot;jdbc:inetdae7a&quot; - take care about no unicode support</li>
<li> set JDBC URL parameter &quot;tds9=false&quot; - results in unsupport of new sql server 2005 data types</li>
<li> When using named pipes, setting timeout has no effect.</li>
<li> When using named pipes, cancel() has no effect.</li>
<li> The method getTableName() requires a cursor or the &quot;for browse&quot; statement.</li>
<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 &quot;char(10) output&quot; and the output value is &quot;abc& quot;& quot; you receive the value &quot;abc&quot;).</li>
<li> The classes Array, Ref and URL are not supported because this are not supported by the SQL Server.</li>
<li> The following methods are not supported by this release:</li>
<ul>
<li> PreparedStatement.setArray (int i, Array x)</li>
<li> PreparedStatement.setRef (int i, Ref x)</li>
<li> PreparedStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-
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.
You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

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

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

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

---

### 16.1. Create a Certificate Request

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

- Run the Internet Services Manager that is located in the Administrative Tools folder.
- Right-click on the Default Web Site node for the server and select Properties; from the context menu.
- Click on the Directory Security tab.
- Click on the Server Certificate button. A wizard should appear.
- Click the Create a new certificate radio button and select the Next button. Click the Create 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 <abbr title="Uniform Resource Locator">URL</abbr> http://YourCertificateServer/certsrv.

Select &quot;Request a Certificate&quot; and click &quot;Next&quot;.

Select &quot;Advanced Request&quot; and click &quot;Next&quot;.
Select the PKCS#10 option and click "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 (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>
</tbody>
</table>
Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority.

17. Changes

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

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

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

- The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.
- ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).
- A bug with wasNull() and getXXX( x, Calendar) was fixed.
- A bug with isFirst() in CachedRowSet was fixed.
- A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.
- A bug with DTCDatasource, SQL Server 7 and WebLogic was fixed.
- A ClassCastException in CachedRowSet.acceptChanges() with a Connection.
from a lookup was fixed.</li>
<li class="level1"><div class="li"> The error &quot;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 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 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>
</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.</li>

<li class="level1">
  Clob and Blob support for updateObject(..) was added.</li>

<li class="level1">
  The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.</li>

<li class="level1">
  CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.</li>

<li class="level1">
  Support for registerOutParameter( x, Types.BOOLEAN) was added.</li>

<li class="level1">
  The synchronized from Connection.close() was removed.</li>

</ul>

</div>

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

<ul>
<li class="level1">
  The truncate of SP output parameter without input value on length 255 was fixed.</li>
</ul>

</div>


<ul>
<li class="level1">
  Support for SSL was added.</li>
</ul>

</div>


<ul>
<li class="level1">
  A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead of 22 columns was fixed.</li>

<li class="level1">
  A NullPointerException with DataSources was fixed. The bug exists since 6.00.</li>

<li class="level1">
  The methods setSecureLevel() and getSecureLevel() were added.</li>
</ul>
The regression that connects to MS SQL Server 6.5 fails was fixed.
The regression that connects to MS SQL Server with named pipes and without
SSL fails was fixed.
A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp,
Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.
The ClassNotFoundExption with SSL on the console with JDK 1.3 was
removed.
The method getColumnDisplaySize() returns the correct size for NUMERIC and
DECIMAL data types now.
Fixes in isAfterLast and isBeforeFirst for empty Resultsets.
A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since
5.03.01.
A "connection reset by peer" error with the latest security patch of
MS was fixed. The bug exists since 5.03.01.
Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server
ran to 100% CPU with JDK 1.5.
A bug with getConnection() was fixed. Formerly, a NullPointerException with
named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers
UNA and SPRINTA always use the secureLevel=0.
The wrong message "Statement.cancel():Statement is currently not running" on running Statements was removed.
The issue that the driver could hang for some time after a protocol violation in
executeQuery() was fixed.
The issue that the driver could hang on getConnection() with login timeout if
you connect to a TCP/IP port of another application was fixed. For example port 21 (<abbr title="File Transfer
Protocol">FTP</abbr>), 80 (HTTP) or 1521 (Oracle).
The garbage output of DatabaseMetaData.getColumns() was fixed. The bug
existed since version 6.01.
<li><div class="level1">
  Unicode support for many DatabaseMetaData was added. Now table names, column names, schema names with non English characters work.</div></li>

<li><div class="level1">
  The methods setAppname() and getAppname() were added to the DataSources.</div></li>

<li><div class="level1">
  The methods setFulltran() and getFulltran() were added to the DataSources.</div></li>

<li><div class="level1">
  Support for the new protocol of SQLServer 2005 was added.</div></li>

<li><div class="level1">
  Support for readout the new datatypes Time, Date, XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</div></li>

<li><div class="level1">
  Support for writeout the new datatypes XML, Varchar(max), NVarchar(max) and Varbinary(max) was added.</div></li>

<li><div class="level1">
  The property lastUpdateCount was added.</div></li>

<li><div class="level1">
  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><div class="level1">
  A bug with Statement.cancel() and SSL and forceEncryption was fixed.</div></li>


<ul>
  <li><div class="level1">
      A call of cancel() on creating of a server cursor now throws an SQLException. Before a corrupt ResultSet was returned.</div></li>

  <li><div 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.</div></li>

  <li><div class="level1">
      Some changes on the time behavior after a call of cancel() or if a query timeout occurs.</div></li>

  <li><div class="level1">
      The timing for resolving the instance name was changed.</div></li>

  <li><div class="level1">
      The property WSID was added.</div></li>

  <li><div 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.</div></li>
</ul>
Support for the data type BIGINT in the method updateObject(i,x) was added.

The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.

If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.

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

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

Connection failover was expanded to set more than one failoverhost.

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

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

Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.

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

The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.
A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.

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

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

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

The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

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

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

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

Method PoolManager.dispose() was added.

The exception &quot;Unknown TDS packet type: 18&quot; will not be thrown anymore.

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

&quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as PreparedStatement now works with SQL Server 2005.

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

Log output extended with information about Connection ID

Performance improvement in ResultSet class.

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

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

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

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

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

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

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

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

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

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

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

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

The method PoolManager.getConnection() is follow more the FIFO concept.

The method equals from TdsDataSource and 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
API was changed for the SQL Server 2005 for support MARS in future versions.

Support for MARS was added.

Data larger as 200 MB are send as bulk. Now you can save date until a size of Interger.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

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

AutoClose was added.

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

A bug with the PoolManager inactive timeout was fixed.

The exception &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.
<li class="level1">Transaction isolation snapshot was added.</li>

<li class="level1">The JDBC 4 feature of negative length for streaming values was added.</li>

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

<li class="level1">ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.</li>

<li class="level1">Some failover properties were added.</li>

<li class="level1">A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.</li>

<li class="level1">PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.</li>

<li class="level1">The property typeMapping was added.</li>

<li class="level1">JDBC4 interface was added for i-net MERLIA.</li>


<ul>
<li class="level1">A very rare protocol violation (Error in the TDS datastream) was fixed. The error occurred only with SQL Server 2005 and multiple ResultSets.</li>

<li class="level1">A bug with UNA and SQL Server 2005 SP2 that ResultSets with cursors did not return a row was fixed.</li>

<li class="level1">A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.</li>

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

<li class="level1">A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.</li>

<li class="level1">Some protocol violations with the data type XML were fixed.</li>

<li class="level1">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&quot;</li>

</ul>
Could not find server 'xyz2005' in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;</div>
</li>
<li class="level1"><div class="li"> A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.</div>
</li>
<li class="level1"><div class="li"> Integrated Windows Authentication for TCP/IP connections was added.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.</div>
</li>
<li class="level1"><div class="li"> The methods getFunctions and getFunctionColumns are now implemented.</div>
</li>
<li class="level1"><div class="li"> The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.</div>
</li>
</ul>
</div>

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

<ul>
<li class="level1"><div class="li"> The error &quot;The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly.&quot; with MERLIA, Java 6 and the JDBC subprotocol inetdae7a was fixed.</div>
</li>
<li class="level1"><div class="li"> 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.</div>
</li>
</ul>
A regression in CachedRowSource with data type NTEXT has produce an error like "The data types ntext and nvarchar are incompatible in the is operator.".

Instances of PDataSource could not have been serialized.

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

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

A NullPointerException with deserialize of the CachedRowSet was fixed.

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.
<li class="level1"><div class="li"> The call ResultSet.findColumn( &quot;&quot; ) did not find empty columns.</div></li>

<li class="level1"><div class="li"> A BigDecimal value with a scale smaller than 38 and a precision larger than 38 was not correctly prepared for SQL Server 2005. It resulted in the error &quot;Error converting data type decimal to decimal.&quot;</div></li>

<li class="level1"><div class="li"> Some error handling was added for connecting to prevent problems in stress conditions.</div></li>

<li class="level1"><div class="li"> The methods updateRow(), deleteRow() and insertRow() had problems with SQL Server 2005 if the SELECT statement also included the table owner.</div></li>

<li class="level1"><div class="li"> A bug with large server certificates (&gt;= 8KBit) was fixed. A connection was only possible with secureLevel=0.</div></li>

<li class="level1"><div class="li"> There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.</div></li>


<ul class="level3">
<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 class="level3">
<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>
</ul>
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 row size 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.

Changes in Version 8.00 (23. Mar 2011)

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

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

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

- Added property packetSize and changed the default from server default to 8000.
- Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.
- Added JDBC URL property sqlxml.
- The method getClob() returned wrong data for data type VARCHAR(MAX).
- Changed the default value of impltran for PDataSource to false.


- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).
- A regression with ParameterMetaData note setting parameters was fixed.
- An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.
- A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

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

- A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.

- Does not use the package sun.misc.* on Java 6 and newer.

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

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


- Added support for VNN (virtual network names) together with instance names.
- Fixed the exception with setNull( x, Types.OTHER ). It is matched to type sql_variant and can be slow.
- No longer write the password to the driver log.
- Add the interface NtlmHandshake to support an external NTLM login source.
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AdventNet SNMPV3 Release 2.2.1

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src/plugin/urlfilter-automaton/lib/automaton.jar
dk.brics.automaton

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

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-util-common.jar
src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.jar
src/plugin/clustering-carrot2/lib/carrot2-snowball-stemmers.jar
src/plugin/clustering-carrot2/lib/carrot2-util-tokenizer.jar
src/plugin/clustering-carrot2/lib/carrot2-local-core.jar

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src/plugin/clustering-carrot2/lib/commons-collections-3.2.jar
ASF

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

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src/plugin/clustering-carrot2/lib/commons-pool-1.3.jar
ASF

src/plugin/protocol-ftp/lib/commons-net-1.2.0-dev.jar
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codeExample

src/plugin/response-json/lib/json-lib-2.2.2-jdk15.jar

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src/plugin/response-json/lib/ezmorph-1.0.6.jar

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

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src/plugin/parse-pdf/lib/FontBox-0.2.0-dev.jar

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src/plugin/parse-pdf/lib/bcpov-jdk14-132.jar
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class 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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*/

crj/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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</module>
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4.269 jboss-common/thirdparty/sleepycat/

5.0.0

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Version: 2.0
<br/>
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<br/>
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* Documentation Location
* Third-Party Component Notices

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

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

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

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This option is useful when you wish to copy part of the code of

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under the terms of Sections 1 and 2 above provided that you accompany

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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

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

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modification of the work for the customer's own use and reverse

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

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a

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

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

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

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

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

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

least three years, to give the same user the materials

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

than the cost of performing this distribution.

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

specified materials from the same place.

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

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

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

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, 1 April 1990
Ty Coon, President of Vice

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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.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.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, like so:

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

2.3. Executing different groups

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

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

2.4. Executing a single test

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

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

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

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

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

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

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

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

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

2.7. Permutations
-----------------
We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

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

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

-Djgroups.stack=tcp

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

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

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

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

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

1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

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

* mvn clean: Cleans out any old builds and binaries
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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.pdf.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.pdf.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.

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Something similar to the following should be added:

<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
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2. TESTING
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a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are
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* 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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The default run executes all tests in the functional group. To just run the tests with txt and xml output the command is:

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```

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```
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```

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```
$ 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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* Documentation Location
* Third-Party Component Notices

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
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For example, on rare occasions, there may be a special need to
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allowed to use the library. A more frequent case is that a free

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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

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A "library" means a collection of software functions and/or data

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(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

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

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

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

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

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

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

with the Library (or with a work based on the Library) on a volume of

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the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2,

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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

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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or

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

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

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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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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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restrictions of other proprietary libraries that do not normally

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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.)

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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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, 1 April 1990
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any free program. We wish to make sure that a company cannot

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

Public License permits more lax criteria for linking other code with

the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General

Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes

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library does the same job as widely used non-free libraries. In this

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

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

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

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

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non-free programs enables many more people to use the whole GNU

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

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

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which has been distributed under these terms. A "work based on the

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making modifications to it. For a library, complete source code means

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covered by this License; they are outside its scope. The act of
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of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
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that copy, so the ordinary GNU General Public License applies to all
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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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

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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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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 April 1990
Ty Coon, President of Vice

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Spelling-Checker Engine SDKs, provided here as a sample."/>
</HEAD>
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<TD WIDTH="70%" VALIGN= CENTER>
<H2 ALIGN=RIGHT>
Sentry Spelling Checker Engine</TD>
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Search&lt;/font&gt;&lt;/a&gt;&lt;/font&gt;&lt;/TD&gt;
</tr>
</table></b></b></p>

<p>
</p>

<p>
</p>

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8747
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8752
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<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>
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<ul class="inlinetoc">
<li class="level2"><div class="li"><a href="#sql-server-java-and-jdbc-versions" class="inlinetoc">2.1 SQL Server, Java and JDBC Versions</a></div></li>
<li class="level2"><div class="li"><a href="#implemented-features" class="inlinetoc">2.2 Implemented Features</a></div></li>
<li class="level2"><div class="li"><a href="#check-host-name-and-port-number-of-your-server" class="inlinetoc">2.3 Check Host Name and Port Number of Your Server</a></div></li>
<li class="level2"><div class="li"><a href="#login-types" class="inlinetoc">2.4 Login Types</a></div></li>
<li class="level2"><div class="li"><a href="#driver-class-name" class="inlinetoc">2.5 Driver Class Name</a></div></li>
<li class="level2"><div class="li"><a href="#jdbc-url-subprotocols" class="inlinetoc">2.6 JDBC URL Subprotocols</a></div></li>
<li class="level2"><div class="li"><a href="#jdbc-url-syntax-of-the-driver" class="inlinetoc">2.7 JDBC URL Syntax of the Driver</a></div></li>
<li class="level2"><div class="li"><a href="#jdbc-url-syntax-of-the-pooled-driver" class="inlinetoc">2.8 JDBC URL Syntax of the Pooled Driver</a></div></li>
<li class="level2"><div class="li"><a href="#implemented-driver-properties" class="inlinetoc">2.9 Implemented Driver Properties</a></div></li>
<li class="level2"><div class="li"><a href="#connections-to-the-msde-2000-release-a" class="inlinetoc">2.10 Connections to the MSDE 2000 Release A</a></div></li>
<li class="level2"><div class="li"><a href="#connection-examples" class="inlinetoc">2.11 Connection Examples</a></div></li>
</ul>

<ul class="inlinetoc">
<li class="level3"><div class="li"><a href="#classicdriverjava" class="inlinetoc">ClassicDriver.java</a></div></li>
<li class="level3"><div class="li"><a href="#pooleddriverjava" class="inlinetoc">PooledDriver.java</a></div></li>
<li class="level3"><div class="li"><a href="#withdatasourcejava" class="inlinetoc">WithDataSource.java</a></div></li>
<li class="level3"><div class="li"><a href="#withpooldatasourcejava" class="inlinetoc">WithPoolDataSource.java</a></div></li>
<li class="level3"><div class="li"><a href="#withpoolmanagerjava" class="inlinetoc">WithPoolManager.java</a></div></li>
<li class="level3"><div class="li"><a href="#withjdbcrowsetjava" class="inlinetoc">WithJDBCRowSet.java</a></div></li>
<li class="level3"><div class="li"><a href="#withjndiandpoolmanagerjava" class="inlinetoc">WithJndiAndPoolManager.java</a></div></li>
<li class="level3"><div class="li"><a href="#package-samplexa" class="inlinetoc">Package</a></div></li>
</ul>
The Performance Problem</li></ul>

8. Scrolling Cursor Types</li>

9. Locking and Concurrency Control</li>

10. Failover</li>

11. Snapshot Transaction Isolation</li>

12. Debugging</li>

13. Support</li>

14. Documentation</li>

15. Known problems</li>

16. Using SSL connections</li>

16.1. Create a Certificate Request</li>

16.2. Create a Certificate with the Certificate Server</li>

16.3. Installing a Certificate</li>

16.4. Uninstalling a Certificate</li>

16.5. Forcing Protocol Encryption</li>

16.6. The driver option securelevel
16.6 The Driver Option secureLevel

17. Changes

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

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

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

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

17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)


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


<h2 id="installation">1. Installation</h2>

<h3 id="using-the-driver-in-a-java-application">1.1 Using the Driver in a Java Application</h3>

<p>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.</p>

<h3 id="using-the-driver-in-an-applet">1.2 Using the Driver in an Applet</h3>

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

<pre class="code html4strict">&lt;applet archive="una.jar"&gt;&lt;/applet&gt;</pre>
2. Getting Started

2.1 SQL Server, Java and JDBC Versions

<table>
<thead>
<tr>
<th>Product</th>
<th>minimum required JDK version</th>
<th>JDBC Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNA</td>
<td>1.1</td>
<td>1.22</td>
</tr>
<tr>
<td>SPRINTA</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>OPTA</td>
<td>1.2</td>
<td>2.0 + Optional Package</td>
</tr>
<tr>
<td>MERLIA</td>
<td>1.4&lt;br&gt;3.0&lt;br&gt;4.0 (with Java 6.0)</td>
<td>2.0</td>
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All drivers support the following SQL Server versions:
<ul>
<li class="level1" ><div class="li"> Microsoft SQL Server 2014</div>
</li>
<li class="level1" ><div class="li"> Microsoft SQL Server 2012</div>
</li>
<li class="level1" ><div class="li"> Microsoft SQL Server 2008</div>
</li>
<li class="level1" ><div class="li"> Microsoft SQL Server 2005</div>
</li>
<li class="level1" ><div class="li"> Microsoft SQL Server 2000</div>
</li>
<li class="level1" ><div class="li"> Microsoft SQL Server 7.0</div>
</li>
<li class="level1" ><div class="li"> Microsoft SQL Server 6.5</div>
</li>
</ul>

with all Service Packs (32 bit / 64 bit)

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

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<tr class="row0">
<td class="col0 leftalign">  </td><td class="col1"> UNA </td><td class="col2"> SPRINTA </td><td class="col3"> OPTA </td><td class="col4"> MERLIA </td>
</tr>
<tr class="row1">
<td class="col0"> JDBC <abbr title="Application Programming Interface">API</abbr></td><td class="col1"> 1.22 </td><td class="col2"> 2.0 </td><td class="col3"> 2.0+ </td><td class="col4"> 4.0 </td>
</tr>
<tr class="row2">
<td class="col0"> PreparedStatement pooling </td><td class="col1"> Yes </td><td class="col2"> Yes </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row3">
<td class="col0"> Scrollable and Updatable ResultSets </td><td class="col1"> - </td><td class="col2"> Yes </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row4">
<td class="col0"> Connection Pooling </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
<tr class="row5">
<td class="col0"> DataSource </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes </td><td class="col4"> Yes </td>
</tr>
</table></div>
<table>
<thead>
<tr>
<th>Pool Manager i-net PLEXA</th>
<th>Yes</th>
<th>Yes</th>
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</thead>
<tbody>
<tr>
<td>JDBCRowSet</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Distributed Transactions (XA)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SSL</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Savepoints on Transactions</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple Open ResultSets per Statement</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>ResultSet Holdability</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)
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 &lt;hostname or ip address&gt; &lt;port number&gt;
```

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

The SQL Server supports three authentication types. These are:

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

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

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

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

2.5 Driver Class Name

The class name of the driver is: strong>com.inet.tds.TdsDriver</strong>
The name of the pooled driver is: <strong>com.inet.pool.PoolDriver</strong>. The pooled driver is only part of OPTA and MERLIA.

The following DataSources are only available in OPTA and MERLIA:

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

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

## 2.6 JDBC URL Subprotocols

- <strong>jdbc:inetdae7: ...</strong>: support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as &sql7=true).
- <strong>jdbc:inetdae7a: ...</strong>: support of the SQL Server 7.0 (or higher) feature with ASCII data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 compliance is required. See character converting JDBC 4.0 API.
- <strong>jdbc:inetdae6: ...</strong>: SQL Server 6.5 compatible mode (passwords are transfered plainly).
2.7 JDBC URL Syntax of the Driver

- jdbc:inetdae7:hostname:portnumber
- jdbc:inetdae7:hostname
  - &gt; with default port 1433
  - &gt; with properties
- jdbc:inetdae7:hostname/instancename
  - &gt; with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434
- jdbc:inetdae7:servername/pipe/instancename
  - &gt; with named instance
- jdbc:inetdae7:servername/pipe/pipename
  - &gt; with named pipes
- jdbc:inetdae7:servername/pipe/MSSQL$instancename/sql/query

2.8 JDBC URL Syntax of the Pooled Driver

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

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

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

<div class="level3">
<table class="inline">
<tr class="row0">
<th class="col0 leftalign">database</th><td class="col1 leftalign">default is the user default database</td>
</tr>
<tr class="row1">
<th class="col0 leftalign">language</th><td class="col1 leftalign">default is "" →SQL Server default language</td>
</tr>
<tr class="row2">
<th class="col0 leftalign">user</th><td class="col1 leftalign">the database user, if empty the current windows user is used</td>
</tr>
<tr class="row3">
<th class="col0 leftalign">password</th><td class="col1 leftalign">password of the database user</td>
</tr>
</table>
</div>
<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;</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>Property</td>
<td>Default</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>prepareLiveTime</td>
<td>default is 60</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>default is 5 * loginTimeout.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is &quot;true&quot;</td>
</tr>
<tr>
<td>appname</td>
<td>Application name (only Application and Enterprise licenses)</td>
</tr>
<tr>
<td>WSID</td>
<td>Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().</td>
</tr>
<tr>
<td>useCursorsAlways</td>
<td>default is &quot;false&quot;</td>
</tr>
<tr>
<td>resultSetType</td>
<td>default is &quot;1003&quot;</td>
</tr>
<tr>
<td>useInsteadOfTrigger</td>
<td>default is <code>false</code>. Default is <code>false</code> in a query with multiple tables all are updated in one step with <code>updateRow()</code>. You need a INSTEAD OF trigger.</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------------------------------------------------------</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 <code>setTransactionIsolation()</code> will call <code>setAutoCommit(false)</code> implicitly and start a transaction.</td>
</tr>
<tr>
<td>fulltran</td>
<td>default is &quot;true&quot;, creates a transaction with <code>setAutoCommit(false)</code>; if <code>false</code> only if needed. With the option <code>fulltran=true</code> the method <code>setAutoCommit()</code> uses <code>BEGIN TRAN</code>; and <code>COMMIT TRAN</code>; If the flag auto commit is set then there will always be a running transaction. With <code>fulltran=false</code> the method <code>setAutoCommit()</code> uses <code>SET IMPLICIT_TRANSACTIONS ON</code>; and <code>SET IMPLICIT_TRANSACTIONS OFF</code> if the flag auto commit is set then the transactions will only start if needed. More information on these SQL expressions and their behaviour can be found in the MSSQL Server Online Manual.</td>
</tr>
<tr>
<td>dstsave</td>
<td>default is <code>true</code>. Effects the way timezone offset is calculated. The ways differ in speed and safety. If true the slower way is used, but this way is bug free. If false, the faster way is used (2-3 times faster), but this way has a Java bug for some time zones at the day the day saving time switches. The bug there is a time displacement of one hour for some hours of the day.</td>
</tr>
<tr>
<td>statusRequest</td>
<td>Set the mode with which the API requests the status of a connection. There are 2 possible modes: * safe (default) - an additional round trip to the database is executed. * fast - the current value of an internal variable is returned. Currently this has only an effect for <code>getTransactionIsolationLevel()</code>.</td>
</tr>
<tr>
<td>fastbatch</td>
<td>default is <code>true</code>. Control if <code>executeBatch()</code> should use one round trip or execute every command as a single command. If <code>fastbatch=true</code> then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use <code>fastbatch=false</code>.</td>
</tr>
<tr>
<td>fetchsize</td>
<td>i-net UNA only, the method <code>executeQuery()</code> always uses server cursors with this fetch size. The other drivers can use <code>Statement.setFetchSize()</code>.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>host</td>
<td>override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property &quot;instance&quot;.</td>
</tr>
<tr>
<td>instance</td>
<td>override the value in the JDBC URL, required the UDP port 1434</td>
</tr>
<tr>
<td>port</td>
<td>override the value in the JDBC URL</td>
</tr>
<tr>
<td>failover</td>
<td>see chapter &quot;Failover on getConnection()&quot;</td>
</tr>
<tr>
<td>mars</td>
<td>Enables (&quot;true&quot;) or disables (&quot;false&quot;) the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched 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 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.</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:
append the properties to the <abbr title="Uniform Resource Locator">URL</abbr> like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch

call method getConnection(String url, Properties info) from the driver manager.

create a DataSource and set the properties with the set methods.

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:

```
ssetup 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.

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)

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 PLEXAtm) comes with i-net OPTA™.
How to use the JDBCRowSet from i-net software (i-net OPTA™).

This demonstrates the use of a DataSource with a JNDI directory.

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

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. Date and Time

{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'[039;]}

4.2 Stored Procedures

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

examples:

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

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

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)}
```

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)}

<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>
<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()&lt;br/&gt;
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + System.getProperty(&quot;file.encoding&quot;)&lt;br/&gt;
or &quot;jdbc:inetdae:localhost:1433?charset=&quot; + (new java.io.InputStreamReader(in)).getEncoding()&lt;br/&gt;
</p>
</div>
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:

```java
"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:

```sql
"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:..."` 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.

SQL Server 2005 supports the following new data types:

SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:
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.
7. PreparedStatement Performance and Data Type Mapping

7.1. Data Type Precedence

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

This is the precedence order for the MS SQL Server data types:

- sql_variant (highest)
- datetime
- smalldatetime
- float
- real
- decimal
- money
- smallmoney
- bigint
- int
- smallint
- tinyint
- bit
- ntext
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>setChar</td>
<td>CHAR</td>
<td>..</td>
</tr>
<tr>
<td>CQL</td>
<td>SQL Type</td>
<td>Value Range</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>NVARCHAR</td>
<td>&gt; 4000 NTEXT</td>
</tr>
<tr>
<td></td>
<td>VARCHAR</td>
<td>&gt; 8000 TEXT</td>
</tr>
<tr>
<td></td>
<td>NVARCHAR</td>
<td>&gt; 4000 NTEXT</td>
</tr>
<tr>
<td></td>
<td>VARCHAR</td>
<td>&gt; 8000 TEXT</td>
</tr>
<tr>
<td></td>
<td>VARBINARY</td>
<td>&gt; 8000 IMAGE</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td>..</td>
</tr>
<tr>
<td></td>
<td>IMAGE</td>
<td>..</td>
</tr>
<tr>
<td></td>
<td>IMAGE</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 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.

7.4 Numeric columns and SQL Server 2000 SP4

BigDecimal parameter send by driver will be processed up to 20% slower. This happens if parameter definition send by Driver don't match exactly the column type. For example Driver sends parameter as 
   &quot;decimal(38,36)&quot;, the column type is &quot;numeric (7,0)&quot;. It seems that the index for the numeric column won't 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. &quot;select * from testnumeric where a = CAST(?) AS numeric(7,0)&quot;
<h2 id="scrolling-cursor-types">8. Scrolling Cursor Types</h2>

<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>

<h2 id="locking-and-concurrency-control">9. Locking and Concurrency Control</h2>

Concurrency type is one of the following concurrency control options.

<table>
<thead>
<tr>
<th>concurrency type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCUR_READ_ONLY</td>
<td>Read-only cursor. You cannot modify rows in</td>
</tr>
</tbody>
</table>
the cursor result set. </td>
</tr>
<tr class="row2">
<td class="col0"> CONCUR_UPDATABLE </td><td class="col1"> Optimistic concurrency control using timestamp or values. Changes to a row that are initiated through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available. </td>
</tr>
<tr class="row3">
<td class="col0"> CONCUR_UPDATABLE+1 </td><td class="col1"> Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed. </td>
</tr>
<tr class="row4">
<td class="col0"> CONCUR_UPDATABLE+2 </td><td class="col1"> Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values. </td>
</tr>
</table></div>

<h2 id="failover">10. Failover</h2>

<h3 id="failover-on-getconnection">10.1 Failover on getConnection()</h3>

<p>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.</p>

<p>For example:<br/>
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2<br/>
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500<br/>
</p>

To set more than one failover possibility, use the following syntax:<br/>
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost&amp;port2=AFurtherPort<br/>
host[N] and port[N] must form pairs, otherwise they will be ignored.
</p>
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. For more information see com.inet.pool.PoolManager.addFailoverListener(), com.inet.pool.FailoverListener, com.inet.pool.FailoverEvent and sample.MonitoredFailover

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>
<tr><td>name</td><td>default</td><td>description</td></tr>
<tr><td>useDefaultFailoverListener</td><td>false</td><td>if set on true, a</td></tr>
```
default FailoverListener will be added automatically to every Connection

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>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>Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
<tr>
<td>failoverListener</td>
<td>-</td>
<td>the class name of your own FailoverListener implementation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection.</td>
</tr>
</tbody>
</table>

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

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

- com.inet.pool.PoolDriver
- com.inet.ora.PDataSource
- com.inet.tds.PDataSource
- com.inet.syb.PDataSource
- com.inet.drda.PDataSource
The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection.

example:

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

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

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

//remove all FailoverListener
(TAFConnection con).removeAllFailoverListener();

//get all registered FailoverListener
FailoverListener[] fls = getFailoverListener();
```

11. Snapshot Transaction Isolation
The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- **Modify the database**
  You can modify the database with the following SQL statement:
  ```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);
  ```

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

- **DriverManager.setLogStream(PrintStream)**
  ```java
  DriverManager.setLogStream( System.out );
  ```

- **DriverManager.setLogStream(PrintStream)**
  ```java
  DriverManager.setLogStream( new FileOutputStream("c:\driver.log"));
  ```

This method is deprecated but it work with all JDBC drivers.
<tr class="row2">
<td class="col0"> DriverManager.setPrintWriter(PrintWriter) </td><td class="col1"> DriverManager.setPrintWriter( new PrintWriter( System.out ) ) </td><td class="col2"> work not with JDBC 1.22 driver like i-net UNA </td>
</tr>
<tr class="row3">
<td class="col0"> Application Server <abbr title="Graphical User Interface">GUI</abbr> </td><td class="col1"> <strong>WebLogic:</strong> Enable the JDBC logging in the server console on the node
servers/myserver/logging/JDBC<strong>JBoss:</strong> You can set it for every DataSource in the config file with:<br/>
....<br/>
&lt;attribute name="LoggingEnabled"&gt;true&lt;/attribute&gt;&lt;br/&gt;
.... </td><td class="col2 leftalign">  </td>
</tr>
<tr class="row4">
<td class="col0"> myDataSource.setPrintWriter(PrintWriter) </td><td class="col1"> myDataSource.setPrintWriter( new PrintWriter( System.out ) ) </td><td class="col2"> enable the logging only for connections from this DataSource </td>
</tr>
<tr class="row5">
<td class="col0"> JDBC <abbr title="Uniform Resource Locator">URL</abbr> option "logging=true" </td><td class="col1"> jdbc:inetdae7:localhost?logging=true </td><td class="col2 leftalign">  </td>
</tr>

<h2 id="support">13. Support</h2>

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.

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>

Support is available per email (replace at with @):
Licensing, Pricing, Updates, ...<td class="col1"> sales at inetsoftware.de </td></tr>
<tr class="row1">
<td class="col0"> i-net UNA </td><td class="col1"> una at inetsoftware.de </td></tr>
<tr class="row2">
<td class="col0"> i-net SPRINTA </td><td class="col1"> sprinta at inetsoftware.de </td></tr>
<tr class="row3">
<td class="col0"> i-net OPTA </td><td class="col1"> opta at inetsoftware.de </td></tr>
<tr class="row4">
<td class="col0"> i-net MERLIA </td><td class="col1"> merlia at inetsoftware.de </td></tr>
<tr class="row5">
<td class="col0"> i-net GATE </td><td class="col1"> opta at inetsoftware.de </td></tr>
<tr class="row6">
<td class="col0"> i-net GATE3 </td><td class="col1"> merlia at inetsoftware.de </td></tr>
</table></div>

<h2 id="documentation">14. Documentation</h2>

You can find more documentation at:


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

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

- set integer values instead of Strings
- use JDBC URL - 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:

- PrepareStatement.setArray (int i, Array x)
- PrepareStatement.setRef (int i, Ref x)
- PrepareStatement.setURL = &quot;int-i-abbr-title-Uniform-Resource-Locator-URL-abb-x&quot;
- CallableStatement.getObject (int i, java.util.Map map)
- CallableStatement.getRef (int i)
- CallableStatement.getArray (int i)
- CallableStatement.getURL = &quot;int-i&quot;
- 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)
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.
- 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.
- Click on the &quot;Directory Security&quot; tab.
- Click on the &quot;Server Certificate&quot; button. A wizard should appear.
- Click the &quot;Next&quot; button.
- The &quot;Create a new certificate&quot; radio button should be selected. Click the &quot;Next&quot; button.
- The &quot;Prepare request now, but send it later&quot; radio button should be selected. Click the &quot;Next&quot; button.
- Enter your organization name and unit and click the &quot;Next&quot; button.
- 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.
- Enter your State and City. Click the &quot;Next&quot; button.
- Accept the default file name of c:\certreq.txt and click the &quot;Next&quot; 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.
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>
<div class="level3">
<p>This is only needed for SQL Server 2000. This is not required for SQL Server 2005.</p>
</div>

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

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

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

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

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

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.

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

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

Drop the Certificate.

Forcing Protocol Encryption

This is only possible for SQL Server 2000. This is not valid for SQL Server 2005.
After you have installed the certificate, the SSL encryption is only valid for this login. This means your username and password are encrypted with SSL. The transferred data are not encrypted. You can also enable the SSL encryption for the transferred data. You can do this in the Server Network Utilities. You can enable it for every MS SQL Server instance.

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

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

<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
The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.

A bug with wasNull() and getXXX( x, Calendar) was fixed.

A bug with isFirst() in CachedRowSet was fixed.

A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCPProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.
A bug with CachedRowSet and setXXX was fixed. It works without 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.

Connections with a read timeout are removed from the connection pool.

The return value of supportsStatementPooling() was changed.

A bug with a DataSource not from the JNDI and equals() was fixed.

The method getParameterMetaData() was implemented.

The methods setImpltran() and getImpltran() were added.

Timestamp objects can be created (read) faster with JDK 1.4.x now.

A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.
Datetime formats with short month and days like '1999-5-5' are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.

The AsciiStream always sends Ascii data (also in unicode mode).

The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.

The call setObject(x, value, Types.BIT) accepts numeric Strings now.

The detecting of the default codepage of the SQL Server 2000 was changed.

The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

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

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

The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter(x, Types.BOOLEAN) was added.

The synchronized from Connection.close() was removed.

The truncate of SP output parameter without input value on length 255 was

- 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 ClassNotFoundException 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 (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
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.
<div class="level3">
<ul>
<li class="level1">Connection failover was expanded to set more than one failoverhost.</li>
<li class="level1">Added setLogging(String) and setProperty(String) to class TdsDataSource.</li>
<li class="level1">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.</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1">Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.</li>
<li class="level1">The bug in DataSource overwriting the original host/port information in failover case has been fixed.</li>
<li class="level1">The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.</li>
<li class="level1">A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.</li>
<li class="level1">CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection).</li>
<li class="level1">Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.</li>
<li class="level1">Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message &quot;Invalid object name&quot; had been issued by mistake.</li>
<li class="level1">The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,9999000000). This is fixed.</li>
<li class="level1">Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.</li>
<li class="level1">Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433</li>
<li class="level1">Bug fixed for requested scrollable ResultSet from stored procedures that also
<li>Method PoolManager.dispose() was added.</li>
<li>The exception "Unknown TDS packet type: 18" will not be thrown anymore.</li>
<li>Performance increasing: executing a prepared statement runs faster at the first execute call.</li>
<li>PreparedStatement now works with SQL Server 2005.</li>
<li>The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int)</li>
<li>Log output extended with information about Connection ID</li>
<li>Performance improvement in ResultSet class.</li>
<li>A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).</li>
<li>Reading out type money and type smallmoney from sql_variant column was fixed.</li>


<li>New driver property "dstsave"</li>
<li>Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)</li>
<li>Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.</li>
<li>Reading values from MONEY columns with getDouble() has been fixed to return correct values.</li>
<li>Since version 6.05 CachedRowSet.populate(ResultSet) didn’t worked. This is fixed now.</li>
<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.

- An excrecent stacktrace log output was removed. (SocketException)
- TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.
- Since version 6.05: If a statement was already prepared, executing it as batch failed.
- SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().
- Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.
- PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[], String and InputStream values in addition.
- since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.
- since 6.04.12, prepare end execute statements didn't worked with SQL Server 7.
- Multiple protocol changes to adapt driver to final SQL Sever 2005. Fix the bug with transaction.
- Adapted meta data requests to changes made in final SQL Server 2005.
- In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.


When the PreparedStatement contained a character sequence in SQL like &#039;---&#039;, the parameters following were ignored.

Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC URL.

Uniform Resource Locator"
The Exception regarding conversion of decimal to decimal on sending BigDecimal values was solved.

If a statement requested a massive amount of columns, sometimes the Exception "Unknown data type:"... would occur. This is fixed now.

Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.

Since 6.04.12, ResultSet.getBytes() returned null although the data was empty and not null.

The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.

Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn't regard the max data types of SQL Server 2005. An "unknown type" Exception was thrown before.


Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error "column type XX is unknown".

An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeQuery() was fixed. The exception could occur with an additional PreparedStatement pool.

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.

NPE fix in Statement close() call.

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.

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

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

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

The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.
A ClassCastException was fixed in method PoolManager.closeAll().

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

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

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

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

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

Support for MARS was added.

Data larger as 200 MB are send as bulk. Now you can save date until a size of Integer.MAX_VALUE-24.

Only SQL Server 2005: Output parameters returned in wrong order together with a return parameter.

With MARS enabled the fetch size hint is ignored.

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

AutoClose was added.

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

A bug with the PoolManager inactive timeout was fixed.
<div>
<ul>
<li>The exception &quot;sp_cursorfetch: The cursor identifier value provided (abcdefXX) is not valid.&quot; on ResultSets with Statement.setFetchSize() was fixed.</li>
<li>Every Throwable that occurs in the method Connection.isClosed() now produces a return value of true.</li>
<li>The warnings of getTransactionIsolation() are ignored now.</li>
<li>The bulk transfer limit was reduced from 200 <abbr title="Megabyte">MB</abbr> to 100 <abbr title="Megabyte">MB</abbr>.</li>
<li>A bug with commit() and rollback() without a transaction and SQL Server 2005 was fixed.</li>
<li>The default value of dstSave was changed to true.</li>
<li>Transaction isolation snapshot was added.</li>
<li>The JDBC 4 feature of negative length for streaming values was added.</li>
<li>A connection with XA transaction is using the isolation level like before starting the transaction. Older versions of the driver has used the default SERIALIZABLE.</li>
<li>ResultSet.getAsciiStream() caused a NullPointerException if the value of the column was NULL.</li>
<li>Some failover properties were added.</li>
<li>A regression with setMaxIdleTime() was fixed. After the timeout not all idle connections were closed.</li>
<li>PreparedStatement.setBigDecimal() has converted the value to BIGINT if there are no decimal points. This is a regression since 6.07.</li>
<li>The property typeMapping was added.</li>
<li>JDBC4 interface was added for i-net MERLIA.</li>
</ul>
</div>


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 '#039;xyz2005&#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.

<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.

Fix a bug with Windows NT authentication and SQL Server 2005.
A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.

The error message "Could not find prepared statement with handle 0." was fixed.

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

The method DataSource.setUrl was added.

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 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 datatypes: -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.</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 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 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>

- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).
- A regression with ParameterMetaData note setting parameters was fixed.
- An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a starting next() for a scrolling ResultSet was fixed.
- A failing windows authentication was fixed for the case that user name, domain name and host name together were very long.

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

- A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.


- Does not use the package sun.misc.* on Java 6 and newer.

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

- A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets 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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ASF

lib/log4j-1.2.15.jar
ASF

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

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

dk.brics.automaton

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Anders Moeller
amoeller@brics.dk

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

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src/plugin/clustering-carrot2/lib/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/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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c/p/studentresponse/lib/ezmorph-1.0.6.jar

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src/plugin/parse-pdf/lib/JempBox-0.2.0.jar

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*/

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

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

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*/

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

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp$

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*/

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

ASF

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4.277 jbossweb 4.2.3.GA

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If
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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.

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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the
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the materials to be distributed need not include anything that is
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components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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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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However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be 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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Version: 3.0
Status: Final Release
Release: 8 May 2006
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the 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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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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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
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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
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>
</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 run as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

2.1. Current Groups
-------------------

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

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

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

$ mvn test

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

$ mvn surefire-report:report

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

$ mvn surefire-report:report-only

2.3. Executing different groups
-------------------------------
A group can be executed (using the default configuration) by simply using the appropriate profile, like so:

$ mvn -P test-jgroups test

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

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

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

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

2.5. Executing all tests in a given package
--------------------------------------------
This can be achieved by passing in the package name with a wildcard to the test parameter.

$ mvn -P test-XXX -Dtest=org/jboss/cache/multiplexer/* test
2.6. Skipping the test run

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

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

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

2.7. Permutations

We use the term permutation to describe a group execution against a particular config. This allows us to test a variety of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the various options, environmental variables, etc. The command to run the jgroups-tcp permutation is:

$ mvn -Pjgroups-tcp surefire-report:report

Each permutation uses its own report directory, and its own html output file name. This allows you to execute multiple permutations without wiping the results from the previous run. Note that due to the way maven operates, only one permutation can be executed per mvn command. So automating multiple runs requires shell scripting, or some other execution framework to make multiple called to maven.

2.8. Running permutations manually or in an IDE

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

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

-Djgroups.stack=tcp

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

-Dorg.jboss.cache.test.tm=jboss-jta
Please refer to the POM file for more properties and permutations.

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

CruiseControl should do the following:

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

1. WORKING WITH MAVEN
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* 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.

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

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

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* Third-Party Component Notices

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

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

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Preamble

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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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c) You must cause the whole of the work to be licensed at no
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table of data to be supplied by an application program that uses
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of

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the Library into a program that is not a library.

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4. You may copy and distribute the Library (or a portion or

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derivative of it, under Section 2) in object code or executable form

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under the terms of Sections 1 and 2 above provided that you accompany

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it with the complete corresponding machine-readable source code, which

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must be distributed under the terms of Sections 1 and 2 above on a

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medium customarily used for software interchange.

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If distribution of object code is made by offering access to copy

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from a designated place, then offering equivalent access to copy the
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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Sections 1 and 2 above); and, if the work is an executable linked

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

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* Third-Party Component Notices

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Preamble

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b) You must cause the files modified to carry prominent notices

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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

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

root function must still compute square roots."

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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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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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Library side-by-side in a single library together with other library

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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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18. Copyright

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.:

<pre class="code html4strict"><span class="sc2">&lt;<a target="_blank" href="http://december.com/html/4/element/applet.html"><span class="kw2">APPLET</span></a> <span class="kw3">CODE</span><span class="sy0">=</span><span class="st0">"..."</span> <span class="kw3">Codebase</span><span class="sy0">=</span><span class="st0">"..."</span> <span class="kw3">ARCHIVE</span><span class="sy0">=</span><span class="st0">"Merlia.jar"</span> <span class="kw3">WIDTH</span><span class="sy0">=</span><span class="st0">"100%"</span> <span class="kw3">HEIGHT</span><span class="sy0">=</span><span class="st0">"100%"</span>&gt;</span>
...
<span class="sc2"><span class="kw2">APPLET</span>&gt;</span></pre>
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>

<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 </td><td class="col1"> 1.4 </td><td class="col2"> 3.0 (with Java 6.0) </td>
  </tr>
</table>

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

### 2.2 Implemented Features

<table>
<thead>
<tr>
<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>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>-</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>DataSource</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pooled Driver with Internal Pooling</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Pool Manager i-net PLEXA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>JDBCRowSet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### 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:

A more complete list can be found at:

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

---

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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’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

| com.inet.tds.TdsDataSource | This is a simple DataSource. Also named JDBC 1 DataSource. |

- **com.inet.tds.TdsDataSource**
- **com.inet.pool.PoolDriver**
<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>

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

<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: ....</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 &lt;abbr title=&quot;American Standard Code for Information Interchange&quot;&gt;ASCII&lt;/abbr&gt; data types Text, Varchar and Char. Use this protocol if using i-net MERLIA and JDBC 4.0 &lt;abbr title=&quot;Application Programming Interface&quot;&gt;API&lt;/abbr&gt; compliance is required. &lt;a href=&quot;#jdbc-40-api&quot; title=&quot;see character converting JDBC 4.0 API&quot; class=&quot;wikilink1&quot;&gt;see character converting JDBC 4.0 API&quot; &lt;/a&gt;</td>
</tr>
<tr>
<td>jdbc:inetdae6: ....</td>
<td>SQL Server 6.5 compatible mode (passwords are transfered plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: ....</td>
<td>only for compatibility with older versions</td>
</tr>
<tr>
<td>jdbc:inetpool: ....</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

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

...
<div class="table ">
<table class="inline">
<tr class="row0">
<td class="col0">jdbc:inetdae7:hostname:portnumber</td><td class="col1 leftalign"></td>
</tr>
<tr class="row1">
<td class="col0">jdbc:inetdae7:hostname</td><td class="col1"> with default port 1433</td>
</tr>
<tr class="row2">
<td class="col0">jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english</td><td class="col1"> with properties</td>
</tr>
<tr class="row3">
<td class="col0">jdbc:inetdae7:hostname/instancename</td><td class="col1"> with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434</td>
</tr>
<tr class="row4">
<td class="col0">jdbc:inetdae7:<em>servername/pipe/pipename</em> | with named pipes | | jdbc:inetdae7:<em>servername/pipe/MSSQL$instancename/sql/query</em></td><td class="col1"> named instance</td>
</tr>
</table></div>

<h3 id="jdbc-url-syntax-of-the-pooled-driver">2.8 JDBC URL Syntax of the Pooled Driver</h3>

The pooled driver is only part of OPTA and MERLIA.

Examples:

- jdbc:inetpool:localhost:1234
- jdbc:inetpool:localHost:1234
- 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; → 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>Property</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()

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>queryTimeout</td>
<td>default is $5 * loginTimeout$. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>default is &quot;true&quot;&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().&lt;br&gt; </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>useCurorsAlways</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 <a href="#scrolling-cursor-types">Scrolling Cursor Types</a>.</td>
</tr>
<tr>
<td>useInsteadOfTrigger</td>
<td>default is &amp;false;&amp;&lt;br&gt;&amp;true;&amp; - in a query with multiple tables all are updated in one step&lt;br&gt;with updateRow(). You need a INSTEAD OF trigger.</td>
</tr>
<tr>
<td>impltran</td>
<td>with Driver the default is &amp;true;&amp; for compatibility with the JDBC-ODBC bridge.&lt;br&gt;with DataSource the default is &amp;false;&amp; to reduce deadlock problems&lt;br&gt;</td>
</tr>
</tbody>
</table>

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); 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 Application Programming Interface API requests the status of a connection. There are 2 possible modes:
  - safe (default) - an additional round trip to the database is executed.
  - fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel().

fastbatch

- default is true. Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.

fetchsize

- 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
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>
| typeMapping| default is jdbc4
Which data type constant should be used from the driver. Available options are <em>jdbc3</em>, <em>jdbc4</em> and <em>odbc</em>. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR. |
| sqlxml     | default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.                                                                                                             |

There are three ways to put the properties to the driver:

1. Append the properties to the <abbr title="Uniform Resource Locator">URL</abbr> like jdbc:inetdae:hostname:portnumber?database=MyDb&amp;language=deutsch
2. call method getConnection(String url, Properties info) from the driver manager.
3. create a DataSource and set the properties with the set methods.

<h3 id="connections-to-the-msde-2000-release-a">2.10 Connections to the MSDE 2000 Release A</h3>
You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
setup SAPWD=&quot;password&quot; SECURITYMODE=SQL DISABLENETWORKPROTOCOLS=0
```

Comments of the switches:

- **SAPWD=&quot;password&quot;**
  
  Set the password for the sa account. This is required for Windows Server 2003.

- **SECURITYMODE=SQL**
  
  Set the Authentication to "Mixed Mode". This is required to connect via TCP/IP with a non-Windows program like Java.

- **DISABLENETWORKPROTOCOLS=0**
  
  Enable the TCP/IP protocol.

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.

<p>
</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 PLEXA™ comes with i-net OPTA™.
</p>

</div>

<h4 id="withjdbcrowsetjava">WithJDBCRowSet.java</h4>
<div class="level4">
<p>
How to use the JDBCRowSet from i-net software (i-net OPTA™).
</p>

</div>

<h4 id="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®). 

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 \text{ `yyyy-mm-dd`}\}
\{t \text{ `hh:mm:ss[.fff]`}\}
\{ts \text{ `yyyy-mm-dd hh:mm:ss[.fff]`}\}

4.2 Stored Procedures

\{\text{call storedProcedures(`Param1`[,`Param2`][,?][...])}\}
\{? = \text{call storedProcedures(`Param1`[,`Param2`][,?][...])}\}

Examples:

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

4.3 Functions

Numeric Functions

\{\text{fn ABS(number)}\}
\{\text{fn ACOS(float)}\}
\{\text{fn ASIN(float)}\}
\{\text{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 TIMESTAMMPADD(interval, datetime, datetime2)}</pre>

<p>interval may be one of the following:</p>
<pre class="code">SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY</pre>
SQL_TSI_WEEK  
SQL_TSI_MONTH  
SQL_TSI_QUARTER  
SQL_TSI_YEAR

<h3 id="outer-join">4.4 Outer Join</h3>
<pre><code>{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}  
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</code></pre>

<h3 id="encrypt">4.5 Encrypt</h3>
<pre><code>{encrypt N"password"}</code></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;  
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 this columns you need to use the character N.  
Example: &quot;INSERT INTO myTable(ntext field) VALUES( N"national text" );&quot;</p>
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 &quot;inetdae7a&quot; subprotocol. If you want all String setter functions support unicode characters, use &quot;inetdae7&quot; subprotocol.

6. New Datatypes

6.1 New Datatypes with SQL Server 7.0 and 2000

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

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

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

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

The latest version of the ODBC-JDBC-Bridge returns the type value Types.OTHER for this data types. This is not helpful. That's why our driver returns the original SQL99 that the SQL Server sends. The old version of the ODBC-JDBC-Bridge returns also this values.
6.2 New Data types with SQL Server 2005

SQL Server 2005 supports the following new data types:

- XML

and the enhanced data types:

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

Only i-net Opta and i-net Merlia provide full support of new data types. For using the new or enhanced data types of 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.

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"><div class="li">sql_variant (highest)</div></li>
<li class="level1"><div class="li">datetime</div></li>
<li class="level1"><div class="li">smalldatetime</div></li>
<li class="level1"><div class="li">float</div></li>
<li class="level1"><div class="li">real</div></li>
<li class="level1"><div class="li">decimal</div></li>
<li class="level1"><div class="li">money</div></li>
<li class="level1"><div class="li">smallmoney</div></li>
<li class="level1"><div class="li">bigint</div></li>
<li class="level1"><div class="li">int</div></li>
<li class="level1"><div class="li">smallint</div></li>
<li class="level1"><div class="li">tinyint</div></li>
<li class="level1"><div class="li">bit</div></li>
<li class="level1"><div class="li">ntext</div></li>
<li class="level1"><div class="li">text</div></li>
<li class="level1"><div class="li">image</div></li>
<li class="level1"><div class="li">timestamp</div></li>
<li class="level1"><div class="li">uniqueidentifier</div></li>
<li class="level1"><div class="li">nvarchar</div></li>
<li class="level1"><div class="li">nchar</div></li>
<li class="level1"><div class="li">varchar</div></li>
</ul>
7.2 Data Type Mapping

If you use the set methods of a PreparedStatement then you will have the following mapping:

<table>
<thead>
<tr>
<th>Method</th>
<th>MS SQL Data Type with protocol inetdae7</th>
<th>MS SQL Data Type with protocol inetdae7a</th>
</tr>
</thead>
<tbody>
<tr>
<td>setBoolean</td>
<td>BIT</td>
<td>..</td>
</tr>
<tr>
<td>setByte</td>
<td>TINYINT</td>
<td>..</td>
</tr>
<tr>
<td>setShort</td>
<td>SMALLINT</td>
<td>..</td>
</tr>
<tr>
<td>setInt</td>
<td>INT</td>
<td>..</td>
</tr>
<tr>
<td>setLong</td>
<td>BIGINT</td>
<td>..</td>
</tr>
<tr>
<td>setFloat</td>
<td>REAL</td>
<td>..</td>
</tr>
<tr>
<td>setDouble</td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td>setBigDecimal</td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td>setString</td>
<td>NVARCHAR 4000</td>
<td>4000 NVARCHAR</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))

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>A forward only cursor with activated optimization.</td>
<td></td>
</tr>
<tr>
<td>Concurrency Type</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<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>TYPE_FORWARD_ONLY</td>
<td>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>
<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 return always false.</td>
</tr>
</tbody>
</table>
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 <kbd>DataSource</kbd> then after an error has occurred the driver tries to connect to a failover server. All properties in the JDBC url or <kbd>DataSource</kbd> 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:

```java
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:

```java
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.
<h3 id="monitored-failover">10.3 Monitored Failover</h3>

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

<h3 id="configuration-via-connection-properties">10.3.1 Configuration via Connection properties</h3>

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:

<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
</tbody>
</table>
| failoverListener | -       | the class name of your own FailoverListener implementation. This class has to implement the FailoverListener interface AND the default public
constructor. This is important to create a new instance of this class via reflection. </td>
</tr>
</table></div>
<p>

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

<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 only be added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

- com.inet.pool.PoolDriver
- com.inet.ora.PDataSource
- com.inet.tds.PDataSource
- com.inet.syb.PDataSource
- com.inet.drda.PDataSource

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

```java
//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10",null, null);
con.setFailoverListener(new MyFirstFailoverListener());
```

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

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

Modify the database

You can modify the database with the following SQL statement:

```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:

\[ \text{initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT} \]

You can also change it with the following Java line:

\[ \text{conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");} \]

**Executing a statement**

You can also change it with the following Java line:

\[ \text{conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT");} \]

Since version 6.08.04 you can also set it via **Application Programming Interface** API with:

\[ \text{conn.setTransactionIsolation(4096);} \]

**Debugging**

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

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream( System.out ):DriverManager.setLogStream( new FileOutputStream(&quot;c:\;driver.log&quot;) );</td>
<td>This method is deprecated but it work with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(PrintWriter)</td>
<td>DriverManager.setPrintWriter( new PrintWriter( System.out ) )</td>
<td>work not with JDBC 1.22 driver like i-net UNA</td>
</tr>
<tr>
<td>Application Server</td>
<td><strong>WebLogic:</strong> Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC</td>
<td>You can set it for every DataSource in the config file with:</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 @):
You can find more documentation at:

http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm

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

The following methods are not supported by this release:

- `PreparedStatement.setArray(int i, Array x)`
- `PreparedStatement.setRef(int i, Ref x)`
- `PreparedStatement.setURL = "int-i"`  
- `CallableStatement.getObject(int i, java.util.Map map)`
- `CallableStatement.getRef(int i)`
- `CallableStatement.getArray(int i)`
- `CallableStatement.getURL = "int-i"`
- All method with a named parameter.
- `DatabaseMetaData.getUDTs(String catalog, String schemaPattern, String typeNamePattern, int[] types)`
- `DatabaseMetaData.getAttributes(String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)`
- `ResultSet.getObject(int i, java.util.Map map)`
- `ResultSet.getRef(int i)`
- `ResultSet.getArray(int i)`
- `ResultSet.getURL = "int-i"`
- `ResultSet.updateArray(int i, Array x)`
- `ResultSet.updateRef(int i, Ref x)`
- All `setXXX` methods in Blob and Clob.
16. Using SSL connections

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

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

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

WARNING: After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you will 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.
Right-click on the Default Web Site node for the server and select &quot;Properties&quot; from the context menu.

Click on the &quot;Directory Security&quot; tab.

Click on the &quot;Server Certificate&quot; button. A wizard should appear.

Click the &quot;Next&quot; button.

The &quot;Create a new certificate&quot; radio button should be selected. Click the &quot;Next&quot; button.

The &quot;Prepare request now, but send it later&quot; radio button should be selected. Click the &quot;Next&quot; button.

Click the &quot;Next&quot; button.

Enter your organization name and unit and click the &quot;Next&quot; button.

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.

Enter your State and City. Click the &quot;Next&quot; button.

Accept the default file name of c:\certreq.txt and click the &quot;Next&quot; 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 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>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>

<h2 id="changes">17. Changes</h2>


- For XA support the extended procedures was replaced with a NT-Service.

<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 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><ul><li class="level1"><div class="li"> The return value of supportsStatementPooling() was changed.</div></li><li class="level1"><div class="li"> A bug with a DataSource not from the JNDI and equals() was fixed.</div></li><li class="level1"><div class="li"> The method getParameterMetaData() was implemented.</div></li><li class="level1"><div class="li"> The methods setImpltran() and getImpltran() were added.</div></li><li class="level1"><div class="li"> Timestamp objects can be created (read) faster with JDK 1.4.x now.</div></li><li class="level1"><div class="li"> A NullPointerException after deserialize of a CachedRowSet was fixed.</div></li><li class="level1"><div class="li"> The method PreparedStatement.getMetaData() work also with GROUP BY now.</div></li><li class="level1"><div class="li"> Datetime formats with short month and days like '1999-5-5' are supported now.</div></li><li class="level1"><div class="li"> A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.</div></li><li class="level1"><div class="li"> The AsciiStream always sends Ascii data (also in unicode mode).</div></li><li class="level1"><div class="li"> The error 'Unknown parameter datatype:-12347' with setUnicodeStream and server site PreparedStatement was fixed.</div></li><li class="level1"><div class="li"> The call setObject( x, value, Types.BIT ) accepts numeric Strings now.</div></li>
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.

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 returns the correct result instead of an Exception if the catalog parameter is different from the Connection catalog.

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

The timing for resolving the instance name was changed.

The property WSID was added.

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

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

The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility with other MS tools.

If a scrollable ResultSet is requested you will now always receive a scrollable ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive ResultSet.

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

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

Connection failover was expanded to set more than one failoverhost.

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

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

- Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.

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

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

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

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

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

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

- The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

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

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

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

- Method PoolManager.dispose() was added.

- The exception &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. (Thrown 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 parameters 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 &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.</div>

Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn’t regard the max data types of SQL Server 2005. An “unknown type” Exception was thrown before.</div>

Only SQL Server 2005: PreparedStatement.setString with empty String value sends null instead of empty String.</div>

Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error “column type XX is unknown.”</div>

An “ArrayIndexOutOfBoundsException: 2” with PreparedStatement.executeQuery() was fixed. The exception could occur with an additional PreparedStatement pool.</div>

Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.</div>

NPE fix in Statement close() call.</div>

IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.</div>

Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.</div>

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

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

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

A ClassCastException was fixed in method PoolManager.closeAll().</div>

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

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

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.
<li class="level1"><div class="li"> A protocol violation (Error in the TDS datastream) with PreparedStatements or stored procedure calls was fixed.</div></li>
<li class="level1"><div class="li"> 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.</div></li>
<li class="level1"><div class="li"> A protocol violation with the max data types (like VARCHAR(max)) and empty strings was fixed.</div></li>
<li class="level1"><div class="li"> Some protocol violations with the data type XML were fixed.</div></li>
<li class="level1"><div class="li"> 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 &#039;xyz2005&#039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;</div></li>
<li class="level1"><div class="li"> A regression since 7.0 with small BigDecimal values and a scale larger than 38 was fixed.</div></li>
<li class="level1"><div class="li"> Integrated Windows Authentication for TCP/IP connections was added.</div></li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException, which occurred during server-side creation of PreparedStatements, is now caught and the connection is closed. The connection can no longer be used because of a bug in SQL Server.</div></li>
<li class="level1"><div class="li"> The methods getFunctions and getFunctionColumns are now implemented.</div></li>
<li class="level1"><div class="li"> The typed SQLExceptions of the JDBC 4 driver did not have the vendor code. The vendor code was always 0.</div></li>

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

- The error &quot;The incoming tabular data stream (TDS) protocol stream is incorrect. The stream ended unexpectedly.&quot; with MERLIA, Java 6 and the JDBC subprotocol inetd.a7 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/[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.

- Connection property resultsetType added.


- A fix for the message &quot;Fatal error on prepare. Connection will be closed.&quot; which occurred with mars=true and SQL Server 2005 was fixed.
The error "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().

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.
<ul class="level1">
<li class="level1">Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.</li>
<li class="level1">Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</li>
<li class="level1">Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</li>
</ul>


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

<h3 id="changes-in-version-803-17-apr-2013">17.27. Changes in Version 8.03  (17. Apr 2013)</h3>
<div class="level3">
<ul>
<li class="level1">
<code>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.</code></li>
</ul>
</div>

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

<div class="level3">
<ul>
<li class="level1">
<code>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</code></li>
<li class="level1">
<code>Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</code></li>
<li class="level1">
<code>Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.</code></li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1">
<code>Added support for VNN (virtual network names) together with instance names.</code></li>
</ul>
</div>
Fixed the exception with setNull(x, Types.OTHER). It is matched to type sql_variant and can be slow.

No longer write the password to the driver log.

Add the interface NtlmHandshake to support an external NTLM login source.

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dk.brics.automaton

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Anders Moeller
amoeller@brics.dk

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

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

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src/plugin/parse-pdf/lib/JempBox-0.2.0.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

*/

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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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4.283 jcommander 1.72

4.284 JCommon 1.0.23

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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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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:

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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.

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

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4.312 jgrapht 0.8.3

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

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

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

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

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4. You may copy and distribute the Library (or a portion or
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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If such an object file uses only numerical parameters, data
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b) Use a suitable shared library mechanism for linking with the
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included without limitation in the term "modification".)

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"Source code" for a work means the preferred form of the work for

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making modifications to it. For a library, complete source code means

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all the source code for all modules it contains, plus any associated

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interface definition files, plus the scripts used to control compilation

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and installation of the library.

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running a program using the Library is not restricted, and output from

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such a program is covered only if its contents constitute a work based

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any

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application-supplied function or table used by this function must

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

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root function must still compute square roots.)

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These requirements apply to the modified work as a whole. If

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identifiable sections of that work are not derived from the Library,

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and can be reasonably considered independent and separate works in

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distribute the same sections as part of a whole which is a work based

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on the Library, the distribution of the whole must be on the terms of

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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.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>

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
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* transaction - Tests which use a transaction manager
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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
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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:

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

$ mvn surefire-report:report

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

$ mvn surefire-report:report-only

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

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

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

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

-Digroups.stack=tcp

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

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

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

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

CruiseControl should do the following:

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

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 -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:

```
<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.

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* Documentation Location
* Third-Party Component Notices

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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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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

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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.

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

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during execution displays copyright notices, you must include the

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machine-readable source code for the Library including whatever

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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

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

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specified in Subsection 6a, above, for a charge no more
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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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Version 3, 29 June 2007

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CONTENTS

* Documentation Location
* Third-Party Component Notices

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d) If a facility in the modified Library refers to a function or a

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is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of

its purpose remains meaningful.
(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

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

root function must still compute square roots.)

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If distribution of object code is made by offering access to copy

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5. A program that contains no derivative of any portion of the

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therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever

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Sections 1 and 2 above); and, if the work is an executable linked

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

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

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

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

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

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Spelling-Checker Engine SDKs, provided here as a sample.">
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Sentry Spelling Checker Engine</h2>
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</body>
</html>
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9677
Manual for the MS SQL Server JDBC type 4 drivers UNA, SPRINTA, OPTA and MERLIA

Version: 8.06
Last Modified: 15. Apr 2015

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   1.2 Using the Driver in an Applet

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<li class="level3"><div class="li"><a href="#withjndijava" class="inlinetoc">WithJNDI.java</a></div></li>

<li class="level3"><div class="li"><a href="#withjndiandpoolmanagerjava" class="inlinetoc">WithJndiAndPoolManager.java</a></div></li>

<li class="level3"><div class="li"><a href="#package-samplexa" class="inlinetoc">Package sample.xa</a></div></li>
</ul>
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

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

6.3 New Data types with SQL Server 2008

7. PreparedStatement Performance and Data Type Mapping

7.1. Data Type Precedence

7.2. Data Type Mapping

7.3. The Performance Problem

7.4. Numeric columns and SQL Server 2000 SP4
8. Scrolling Cursor Types

9. Locking and Concurrency Control

10. Failover

11. Snapshot Transaction Isolation

12. Debugging

13. Support

14. Documentation

15. Known problems

16. Using SSL connections

16.1. Create a Certificate Request

16.2. Create a Certificate with the Certificate Server

16.3. Installing a Certificate

16.4. Uninstalling a Certificate

16.5. Forcing Protocol Encryption

16.6. The Driver Option secureLevel

17. Changes
17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)
17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)
17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)
17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)
17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)
17.7. Changes in Version 6.01 (1. Apr 2004)
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.:
or extract the jar in the directory of the applet.

or extract the jar in the directory of the applet.

<h2 id="getting-started">2. Getting Started</h2>

<p>All drivers support the following SQL Server versions:
</p>

<ul>
<li>Microsoft SQL Server 2014</li>
<li>Microsoft SQL Server 2012</li>
</ul>
<li class="level1"><div class="li"> Microsoft SQL Server 2008</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 2005</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 2000</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 7.0</div></li>
<li class="level1"><div class="li"> Microsoft SQL Server 6.5</div></li>

with all Service Packs (32 bit / 64 bit)

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>UNA</th>
<th>SPRINTA</th>
<th>OPTA</th>
<th>MERLIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDBC API</td>
<td>1.22</td>
<td>2.0</td>
<td>2.0+</td>
<td>4.0</td>
</tr>
<tr>
<td>PreparedStatement pooling</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scrollable and Updatable ResultSets</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Connection Pooling</td>
<td>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>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

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.
If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:

For Microsoft SQL Server 6.5:

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

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet <span class="sy0">hostname</span> or <span class="kw2">ip</span> address <span class="sy0">port number</span>
```

If the connection is refused then the hostname or the port number is incorrect.
The SQL Server supports three authentication types. These are:

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

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

1. Select the SQL Server in the Enterprise Manager.
2. Open the properties dialog.
3. 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><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.</td>
</tr>
<tr>
<td>com.inet.tds.PDataSource</td>
<td>This is pooled DataSource.</td>
</tr>
<tr>
<td>com.inet.tds.DTCDataSource</td>
<td>This is an XADataSource. It works in conjunction with the MS DTC (Distributed transaction Coordinator). You need to install the DTCProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease.</td>
</tr>
</tbody>
</table>

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

2.6 JDBC URL Subprotocols

<table>
<thead>
<tr>
<th>Subprotocol</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 transfered plainly)</td>
</tr>
<tr>
<td>jdbc:inetdae: ....</td>
<td>only for compatibility with older versions</td>
</tr>
</tbody>
</table>
jdbc:inetpool: .....

<table>
<thead>
<tr>
<th>jdbc:inetpool:hostname:portnumber</th>
<th>pooled driver (only OPTA and MERLIA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>jdbc:inetpool:hostname</td>
<td>pooled driver (only OPTA and MERLIA)</td>
</tr>
</tbody>
</table>

2.7 JDBC URL Syntax of the Driver

- `jdbc:inetdae7:hostname:portnumber` with default port 1433
- `jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english` with properties
- `jdbc:inetdae7:hostname/instancename` with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434
- `jdbc:inetdae7:servername/pipe/pipename | %8211;&gt; with named pipes | %8211;&gt; named instance` with named instance

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>

<div class="level3">
<table class="inline">
<tr class="row0">
<th class="col0 leftalign"> database             </th><td class="col1 leftalign"> default is the user default database </td>
</tr>
<tr class="row1">
<th class="col0 leftalign"> language             </th><td class="col1 leftalign"> default is "" →SQL Server default language </td>
</tr>
<tr class="row2">
<th class="col0 leftalign"> user                 </th><td class="col1 leftalign"> the database user, if empty the current windows user is used </td>
</tr>
<tr class="row3">
<th class="col0 leftalign"> password             </th><td class="col1 leftalign"> password of the database user </td>
</tr>
<tr class="row4">
<th class="col0 leftalign"> charset              </th><td class="col1 leftalign"> see Character Converting </td>
</tr>
</table>
</div>
<table>
<thead>
<tr>
<th>initSQL</th>
<th>This expression is executed once per connection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>logging</td>
<td>default is &quot;false&quot; If the value is &quot;true&quot; and the JDBC logging is not enabled then the driver will set it to System.out.</td>
</tr>
<tr>
<td>sql7</td>
<td>default is &quot;false&quot; with &quot;inetdae&quot; &quot;true&quot; the new datatypes are supported; this property works only with the classic subprotocol &quot;inetdae&quot;</td>
</tr>
<tr>
<td>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>lastUpdateCount</td>
<td>default is &quot;false&quot;</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>loginTimeout</td>
<td></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>
<td></td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>&quot;true&quot;</td>
<td>default is &quot;true&quot;. The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().</td>
</tr>
<tr>
<td>appname</td>
<td></td>
<td>Application name (only Application and Enterprise licenses)</td>
</tr>
<tr>
<td>WSID</td>
<td></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>&quot;false&quot;</td>
<td>&quot;true&quot; - in a query with multiple tables all are updated in one step.</td>
</tr>
<tr>
<td>resultSetType</td>
<td>&quot;1003&quot;</td>
<td>A list of valid values can find in chapter Scrolling Cursor Types.</td>
</tr>
<tr>
<td>useInsteadOfTrigger</td>
<td></td>
<td>&amp;  - in a query with multiple tables all are updated in one step.</td>
</tr>
</tbody>
</table>
with updateRow(). You need a INSTEAD OF trigger.

```html
"row21"
</td></tr><tr class="row22">
<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. With Data Source 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 class="row23">
<th class="col0 leftalign"> fulltran              </th><td class="col1 leftalign"> default is &quot;true&quot; , creates always a transaction with setAutoCommit( false ); &quot;false&quot; 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="row24">
<th class="col0 leftalign"> dstsave              </th><td class="col1 leftalign"> 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 class="row25">
<th class="col0 leftalign"> statusRequest         </th><td class="col1 leftalign"> Set the mode with which the API requests the status of a connection. There are 2 possible modes: * safe (default) - an additional round trip to the database is executed. * fast - the current value of an internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel().
</td></tr><tr class="row26">
<th class="col0 leftalign"> fastbatch            </th><td class="col1 leftalign"> default is true. Control if executeBatch() should use one round trip or execute every command as a single command. If fastbatch=false then the resulting update counts can be wrong if every single command does not produce a single count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.
</td></tr><tr class="row27">
<th class="col0 leftalign"> host                 </th><td class="col1 leftalign"> override the value in the JDBC URL. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property &quot;instance&quot;.
</td></tr>
```

Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0

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<table>
<thead>
<tr>
<th>instance</th>
<th>override the value in the JDBC URL, required the UDP port 1434</th>
</tr>
</thead>
<tbody>
<tr>
<td>port</td>
<td>override the value in the JDBC URL</td>
</tr>
<tr>
<td>failover</td>
<td>see chapter &quot;Failover on getConnection()&quot;</td>
</tr>
<tr>
<td>mars</td>
<td>Enables (&quot;true&quot;) or disables (&quot;false&quot;) the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched 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 <a href="#setMode%28int%29">API documentation</a> for more details.</td>
</tr>
<tr>
<td>typeMapping</td>
<td>default is jdbc4 Which data type constant should be used from the driver. Available options are jdbc3, jdbc4, odbc. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.</td>
</tr>
<tr>
<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:

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

<h3>2.10 Connections to the MSDE 2000 Release A</h3>

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

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

**Comments of the switches:**

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

<h3>2.11 Connection Examples</h3>

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

</div>

<h4 id="withjndiandpoolmanager">WithJndiAndPoolManager.java</h4>
<p>This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net PLEXA®
</p>

</div>

<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>

</div>
<p>The driver implements all escape clauses as follows:</p>

```java
st = con.createStatement();
st.executeQuery("{call MyProc('value')}");
```

```
pr = con.prepareStatement("{call MyProc('value')}");
pr.setString("value");
pr.executeQuery();
```

```
pr = con.prepareStatement("{call MyProc( ? )}");
pr.setString("value");
pr.executeQuery();
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
st.<span class="me1">execute</span>"{call MyProc('value')}");
```

```java
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```

```
pr.<span class="me1">execute</span>"{call MyProc( ? )}");
```

```
pr.<span class="me1">execute</span>"{call MyProc('value')}");
```
Numeric Functions

<pre class="code">
{fn ABS(number)}
{fn ACOS(float)}
{fn ASIN(float)}
{fn ATAN(float)}
{fn ATAN2(float1, float2)}
{fn CEILING(number)}
{fn COS(float)}
{fn COT(float)}
{fn DEGREES(number)}
{fn EXP(float)}
{fn FLOOR(number)}
{fn LOG(float)}
{fn LOG10(float)}
{fn PI()}
{fn POWER(number, power)}
{fn RADIANS(number)}
{fn RAND(integer)}
{fn ROUND(number, places)}
{fn SIGN(number)}
{fn SIN(float)}
{fn SQRT(float)}
{fn TAN(float)}
</pre>

Time and Date Functions

<pre class="code">
{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn 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>
interval may be one of the following:
</p>
<pre class="code">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</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}</pre>
<pre class="code">{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. For example: "jdbc:inetdae:localhost:1433?charset=Cp1250"
</p>
<p>TIP: The property charset is case-sensitive in JAVA. The name of the character set is also case-sensitive.</p>
<p>You can test the availability of a character set with: getBytes(charset);</p>
</div>
If this line executes correctly the character set is available in the current VM.

The parameter charset is ignored on columns with nchar, nvchar, 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' )"

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.

The SQL server 7.0 and 2000 supports new datatypes, i.e. nchar, ntext, nvchar, 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.

<ul>
<li>-8 - NCHAR</li>
<li>-9 - NVARCHAR</li>
<li>-10 - NTEXT</li>
<li>-11 - UNIQUEIDENTIFIER</li>
<li>-150 - SQL_VARIANT</li>
</ul>

<h3>6.2 New Data types with SQL Server 2005</h3>

SQL Server 2005 supports the following new data types:

<ul>
<li>XML</li>
</ul>

and the enhanced data types:

<ul>
<li>Varchar(max)</li>
<li>NVarchar(max)</li>
<li>Varbinary(max)</li>
</ul>

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.
<p>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.</p>

<p>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:</p>

<ul>
  <li>DATE</li>
  <li>TIME</li>
  <li>DATETIME2</li>
  <li>DATETIMEOFFSET</li>
</ul>

<p>The other new data types:</p>

<ul>
  <li>GEOGRAPHY</li>
  <li>GEOMETRY</li>
  <li>HIERARCHYID</li>
</ul>

<p>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.</p>
7.1. Data Type Precedence

When two expressions of different data types are combined by an operator, the data type precedence rules specify which data type is converted into the other. The data type with the lower precedence is converted to the data type with the higher precedence.

This is the precedence order for the MS SQL Server data types:

- sql_variant (highest)
- datetime
- smalldatetime
- float
- real
- decimal
- money
- smallmoney
- bigint
- int
- smallint
- tinyint
- bit
- ntext
- text
- image
- timestamp
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>Method</td>
<td>Type</td>
<td>Values</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td><code>setDouble</code></td>
<td>FLOAT</td>
<td>..</td>
</tr>
<tr>
<td><code>setBigDecimal</code></td>
<td>DECIMAL</td>
<td>..</td>
</tr>
<tr>
<td><code>setString</code></td>
<td>NVARCHAR &gt; 4000</td>
<td>NTEXT &gt; 4000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setAsciiStream</code></td>
<td>VARCHAR &gt; 8000</td>
<td>TEXT</td>
</tr>
<tr>
<td><code>setClob</code></td>
<td>NVARCHAR &gt; 4000</td>
<td>NTEXT &gt; 4000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setCharacterStream</code></td>
<td>NVARCHAR &gt; 4000</td>
<td>NTEXT &gt; 4000 VARCHAR &gt; 8000 TEXT</td>
</tr>
<tr>
<td><code>setDate</code></td>
<td>DATETIME</td>
<td>..</td>
</tr>
<tr>
<td><code>setTime</code></td>
<td>DATETIME</td>
<td>..</td>
</tr>
<tr>
<td><code>setTimestamp</code></td>
<td>DATETIME</td>
<td>..</td>
</tr>
<tr>
<td><code>setBytes</code></td>
<td>VARBINARY &gt; 8000</td>
<td>IMAGE &gt; 8000 &amp;VARBINARY &gt; 8000 &amp;IMAGE</td>
</tr>
<tr>
<td><code>setBinaryStream</code></td>
<td>IMAGE</td>
<td>..</td>
</tr>
<tr>
<td><code>setBlob</code></td>
<td>IMAGE</td>
<td>..</td>
</tr>
</tbody>
</table>
7.3 The Performance Problem

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.

7.4 Numeric columns and SQL Server 2000 SP4

BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by Driver don't match exactly the column type. For example Driver sends parameter as decimal(38,36), the column type is numeric (7,0). It seems that the index for the numeric column won't used with SP4. With SQL Server 2005 or earlier SQL Server version such a behaviour was not seen. A workaround for that problem is to cast to column type. E.g. select * from testnumeric where a = CAST(? AS numeric(7,0))

8. Scrolling Cursor Types
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 by other users.
unchanged since the last fetch. Changes are detected by comparing timestamps or by comparing all nontext, nonimage values if timestamps are not available. </td>
</tr>
<tr class="row3">
<td class="col0"> CONCUR_UPDATABLE+1 </td><td class="col1"> Intent to update locking. Places an update intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction is closed. </td>
</tr>
<tr class="row4">
<td class="col0"> CONCUR_UPDATABLE+2 </td><td class="col1"> Optimistic concurrency control using values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes are detected by comparing all nontext, nonimage values. </td>
</tr>
</table>

</div>

<h2 id="failover" class="level2">10. Failover</h2>

<h3 id="failover-on-getconnection" class="level3">10.1 Failover on getConnection()</h3>

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:

```java
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:

```java
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" class="level3">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 &lt;abbr title="Application Programming Interface">API</abbr&gt; 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 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>
</tbody>
</table>
totalTimeOfAttempts 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&useDefaultFailoverListener=true&waitTimeToNextAttempt=100&totalTimeOfAttempts=10

For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection.
<pre class="code 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
MonitoredFailoverListener fl = new samples.CounteredFailoverListener();
TAFConnection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");
con.addFailoverListener(fl);

//remove a FailoverListener
TAFConnection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");
con.removeFailoverListener(fl);

//remove all FailoverListener
TAFConnection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl", "scott", "tiger");
con.removeAllFailoverListener();

//get all registered FailoverListener
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;</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;</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");</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);</div></li>

<h2 id="debugging">12. Debugging</h2>
<p>If you have problems with the driver then you can enable the logging of the driver. There are different solutions.</p>
<table class="inline">
<tr class="row0"><td class="col0">Solutions</td><td class="col1">examples</td><td class="col2">Comments</td></tr>
<tr class="row1"><td>DriverManager.setLogStream(PrintStream)</td><td>DriverManager.setLogStream( System.out );DriverManager.setLogStream( new FileOutputStream("c:\;\driver.log") );</td><td>This method is deprecated but it work with all JDBC drivers.</td></tr>
<tr class="row2"><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>
</table>
Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC

`WebLogic:` Enable the JDBC logging in the server console on the node

`myserver/logging/JDBC`<br />

`JBoss:` You can set it for every DataSource in the config file with:

```
  ....
  &lt;attribute name="&quot;LoggingEnabled&quot;&gt;true&lt;/attribute&gt;&lt;br&gt;
  ....
```

myDataSource.setPrintWriter(PrintWriter)  

`myDataSource.setPrintWriter(new PrintWriter(System.out))`  

enable the logging only for connections from this DataSource

`jdbc:inetdae7:localhost?logging=true`  

Support

Before you ask our support staff for assistance please check out our FAQ. Thank you very much for your collaboration.

The latest support information are available at: http://www.inetsoftware.de/support

Support is available per email (replace at with @):
<tr class="row2">
<td class="col0"> i-net SPRINTA </td><td class="col1"> sprinta at inetsoftware.de </td>
</tr>
<tr class="row3">
<td class="col0"> i-net OPTA </td><td class="col1"> opta at inetsoftware.de </td>
</tr>
<tr class="row4">
<td class="col0"> i-net MERLIA </td><td class="col1"> merlia at inetsoftware.de </td>
</tr>
<tr class="row5">
<td class="col0"> i-net GATE </td><td class="col1"> opta at inetsoftware.de </td>
</tr>
<tr class="row6">
<td class="col0"> i-net GATE3 </td><td class="col1"> merlia at inetsoftware.de </td>
</tr>
</table>

<h2 id="documentation">14. Documentation</h2>
<p>You can find more documentation at:<br/>

<h2 id="known-problems">15. Known problems</h2>
<ul>
<li class="level1"> SQL Server 2005: if String parameter are used for integer parameter the following error will received: [HOST]Operand type clash: ntext is incompatible with int<br/>
possible workarounds are: </li>
<li class="level2"> set integer values instead of Strings</li>
<li class="level2"> use JDBC URL - take care about no unicode support</li>
<li class="level2"> set JDBC parameter - results in unsupport of new sql server 2005 data types</li>
</ul>
When using named pipes, setting timeout has no effect.

When using named pipes, cancel() has no effect.

The method getTableName() requires a cursor or the "for browse" statement.

Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output" and the output value is "abc "; you receive the value "abc ").

The classes Array, Ref and URL are not supported because these 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"
- CallableStatement.getObject (int i, java.util.Map map)
- CallableStatement.getRef (int i)
- CallableStatement.getArray (int i)
- CallableStatement.getURL ="int-i"
- All method with a named parameter.
- DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)
- DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)
- ResultSet.getObject (int i, java.util.Map map)
- ResultSet.getRef (int i)
- ResultSet.getArray (int i)
- ResultSet.getURL ="int-i"
- ResultSet.updateArray (int i, Array x)
<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>

All setXXX methods in Blob and Clob.

</div>

<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>

<p>Note: You don't need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.</p>

<h3 id="create-a-certificate-request">16.1. Create a Certificate Request</h3>
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'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.
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 "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.
<h3 id="the-driver-option-securelevel">16.6 The Driver Option secureLevel</h3>

<table>
<thead>
<tr>
<th>value</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Does not use SSL. With the SQL Server 2005 it will work in SQL Server 2000 compatible mode. This means SQL Server 2005 feature are not available.</td>
</tr>
<tr>
<td>1 (default)</td>
<td>Uses SSL if the MS SQL Server supports it (MS SQL Server 2000 with installed Certificate). The SQL Server 2005 ever.</td>
</tr>
<tr>
<td>2</td>
<td>Always uses SSL. This will throw an exception if the MS SQL Server does not support SSL.</td>
</tr>
<tr>
<td>3</td>
<td>Always uses SSL and verifies the Certificate. This will throw an exception if the MS SQL Server does not support SSL or if the Certificate was created from a non-trusted Certification Authority</td>
</tr>
</tbody>
</table>

<h2 id="changes">17. Changes</h2>

17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)

- For XA support the extended procedures was replaced with a NT-Service.
- The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.
17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)

The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the /p option now.

ArrayIndexOutOfBoundsException:8190 (value 2*string size) with prepare=false, unicode mode and large Strings (approx. &gt; 4095).

A bug with wasNull() and getXXX( x, Calendar) was fixed.

A bug with isFirst() in CachedRowSet was fixed.

A bug with getGeneratedKeys() with PreparedStatements, prepare=true and SQL Server 2000 was fixed.

A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.

A ClassCastException in CachedRowSet.acceptChanges() with a Connection from a lookup was fixed.

The error "Disallowed implicit conversion ..." with CachedRowSet and null values was fixed.

Property initSQL was added.

A loop for name resolution of the instance name was added.

A reconnect for the DTCProxy was added if a network error occur.

In CachedRowSet and JDBCRowSet the methods absolute() and relative fire cursorMoved event now.

17.3 Changes in Version 5.02 (MERLIA 2.02) (8. May 2003)

A bug with CachedRowSet and setXXX was fixed. It works without clearParameters() now.

A bug with the method updateFloat and updateDouble in CachedRowSet was fixed. The scale was 0, e.g. for the column type &quot;money&quot;.
A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error "Cookie from MSDTC is null" was fixed.

A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.

Method PoolManager.closeConnection(Connection) was added.

Errors in ResultSet.close() are caught now.

A very rare protocol violation with many columns, SQL Server 2000 and the datatyp TEXT or NTEXT was fixed.

The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.

Connections with a read timeout are removed from the connection pool.

The return value of supportsStatementPooling() was changed.

A bug with a DataSource not from the JNDI and equals() was fixed.

The method getParameterMetaData() was implemented.

The methods setImpltran() and getImpltran() were added.

Timestamp objects can be created (read) faster with JDK 1.4.x now.

A NullPointerException after deserialize of a CachedRowSet was fixed.

The method PreparedStatement.getMetaData() work also with GROUP BY now.

Datetime formats with short month and days like '1999-5-5' are supported now.

A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.
The AsciiStream always sends Ascii data (also in unicode mode).

The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.

The call setObject( x, value, Types.BIT ) accepts numeric Strings now.

The detecting of the default codepage of the SQL Server 2000 was changed.

The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.

The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.

The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.

The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.

Clob and Blob support for updateObject(..) was added.

The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.

CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.

Support for registerOutParameter( x, Types.BOOLEAN) was added.

The synchronized from Connection.close() was removed.

The truncate of SP output parameter without input value on length 255 was fixed.

- Support for SSL was added.

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 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 (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 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...
The following bug has been fixed: A CallableStatement returned wrong out-parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.

Only SQL Server 2005: A bug throwing a NullPointerException in ResultSet.getXXX(String) after calling DatabaseMetaData.getColumns() has been fixed.

The bug in DataSource overwriting the original host/port information in failover case has been fixed.

The com.inet.pool.TimedFailoverListener / DefaultFailoverListener calculated the end of reconnect process too early. This is fixed.

A java.lang.ArrayIndexOutOfBoundsException with DTCDataSource on XA transaction starting with a full expanded Xid was fixed. The DTCProxy was also changed to version 1.04.

CachedRowSet no more closes the Connection that was set with acceptChanges(Connection) or execute(Connection)

Only i-net MERLIA: Connecting to SQL Server 2005 Beta 2 is possible now.

Fix for ResultSet.updateRow() with SQL Server 2005 Beta 2. Previously the error message &quot;Invalid object name&quot; had been issued by mistake.

The driver sent a wrong time for following timestamp: Timestamp(X,X,X,23,59,59,999000000). This is fixed.

Fix for SQL Server 2005 Beta 2: The information whether the ResultSet cursor received data had been erroneously evaluated before the fix.

Support for setting an IPv6 address as a host name. Sample JDBC URL: jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433

Bug fixed for requested scrollable ResultSet from stored procedures that also returned a parameter.

Method PoolManager.dispose() was added.

The exception &quot;Unknown TDS packet type: 18&quot; will not be thrown
Performance increasing: executing a prepared statement runs faster at the first
execute call.</li>

"Create View ..." and "Create Procedure ..." executed as
PreparedStatement now works with SQL Server 2005.</li>

The ResultSet created by Statement.execute() now is from the type defined with
Connection.createStatement(int,int)</li>

Log output extended with information about Connection ID</li>

Performance improvement in ResultSet class.</li>

A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and
PoolManager.getUsedConnectionCount(Object).</li>

Reading out type money and type smallmoney from sql_variant column was
fixed.</li>

New driver property "dstsave"</li>

Receiving a BigDecimal from a BIT column is implemented now. (Threw a
NumberFormatException before)</li>

Reading NULL values from MONEY columns with getDouble() has been fixed
to not throw an Exception anymore.</li>

Reading values from MONEY columns with getDouble() has been fixed to
return correct values.</li>

Since version 6.05 CachedRowSet.populate(ResultSet) didn't worked.
This is fixed now.</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.</li>

An excrescent stacktrace log output was removed. (SocketException)</li>

TdsDriver.getPropertyInfo() was extended, more properties. Values and choices
were added.</div>

<li class="level1"><div class="li"> Since version 6.05: If a statement was already prepared, executing it as batch failed.</div>
</li>

<li class="level1"><div class="li"> SQL Server 2005: Fixed a protocol problem with setting a Boolean value and
Types.Bit to PreparedStatement.setObject().</div>
</li>

<li class="level1"><div class="li"> Behaviour change for input parameter that are streams. Those parameter have to
reset for every execution.</div>
</li>

<li class="level1"><div class="li"> PreparedStatement.setObject(int, Object, int, int) and
PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and
InputStream values in addition.</div>
</li>

<li class="level1"><div class="li"> since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was
executed with PreparedSatement.execute() and Driver subprotocol inetdae7 and inetdae7a.</div>
</li>

<li class="level1"><div class="li"> since 6.04.12, prepare end execute statements didn't worked with SQL
Server 7.</div>
</li>

<li class="level1"><div class="li"> Multiple protocol changes to adapt driver to final SQL Sev er 2005. Fix the bug
with transaction</div>
</li>

<li class="level1"><div class="li"> Adapted meta data requests to changes made in final SQL Server 2005.</div>
</li>

<li class="level1"><div class="li"> In very seldom cases ResultSet.getString() was returning wrong values in a
multiprocessor environment.</div>
</li>

</div>


<ul>
<li class="level1"><div class="li"> When the PreparedStatement contained a character sequence in SQL like
&amp;#039;&amp;#8211;&amp;#039;, the parameters following were ignored.</div>
</li>

<li class="level1"><div class="li"> Problems with version UNA and SPRINTA with SQL Server 2005 and
connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC <abbr title="Uniform Resource Locator">URL</abbr>)</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>

</ul>
<li>Since Version 6.05.10 the query timeout and login timeout in TdsDataSource increased after every getConnection() call.</li>
<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.</li>
<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.</li>
<li>Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error “column type XX is unknown.”</li>
<li>An “ArrayIndexOutOfBoundsException: 2” with PreparedStatement.executeQueryXXX() was fixed. The exception could occur with an additional PreparedStatement pool.</li>
<li>Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.</li>
<li>NPE fix in Statement.close() call.</li>
<li>IllegalArgumentException fixed when trying to access DatabaseMetaData method via reflection.</li>
<li>Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.</li>
<li>A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.</li>
<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.</li>
<li>The method sequence Statement.cancel() and Connection.isClosed() would block the connection for too long.</li>
<li>A ClassCastException was fixed in method PoolManager.closeAll().</li>
<li>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 data until a size of Integer.MAX_VALUE.

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;lt;&amp;lt;39; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;&lt;/xyz2005&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 &quot;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"}" 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.".

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 &quot;Msg 7202, Level 11, State 2, Line 1, Sqlstate 01000<br />
[xyz2005]Could not find server &039;xyz2005&039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;.

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 />
[xyz2005]Could not find server &039;xyz2005&039; in sysservers. Execute sp_addlinkedserver to add the server to sysservers.&quot;.

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.

There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.


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There was a NullPointerException with SQL Server 6.5 with ResultSet.getInt(x) on a VARCHAR column that included a NULL value.
<li class="level1">Connection property resultSetType was not used for PreparedStatement and CallableStatement.</li>
<li class="level1">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().</li>
<li class="level1">Classes DTCDataSource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.</li>

<ul>
<li class="level1">Empty strings in CacheRowSet changed to null values after serialization.</li>
<li class="level1">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.</li>
<li class="level1">The inactive timeout of the PoolManager is now reset with every method call.</li>
<li class="level1">The property fastbatch was added.</li>
<li class="level1">A possible hanging in socket.skip() after a timeout or cancel was fixed.</li>
<li class="level1">An endless loop in ResultSet.findColumn( String ) with empty column name was fixed.</li>
<li class="level1">Some NullPointerExceptions with setClientInfo and pooled Connection were fixed.</li>
<li class="level1">The error "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.</li>
<li class="level1">Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.</li>
</ul>

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 DTCPProxy was fixed.

Long-running XA transactions were rolled back after 10 minutes under very rare
<div class="level3">
<ul>
<li class="level1">
<div class="li">
 Added support for the new data types DATE, TIME, DATETIME2 and DATETIMEOFFSET of the SQL Server 2008. Now the driver returns the equivalent Java objects.</div>
</li>
<li class="level1">
<div class="li">
 Improve support for java.util.Date together with PreparedStatements and updatable ResultSets.</div>
</li>
<li class="level1">
<div class="li">
 Improve the speed for getGeneratedKeys together with PreparedStatements. Now it use server side prepare and no extra roundtrip to the database.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1">
<div class="li">
 Added property packetSize and changed the default from server default to 8000.</div>
</li>
<li class="level1">
<div class="li">
 Added support for setObject( x, String, Types.NVARCHAR ) with inetdae7a mode.</div>
</li>
<li class="level1">
<div class="li">
 Added JDBC <abbr title="Uniform Resource Locator">URL</abbr> property sqlxml.</div>
</li>
<li class="level1">
<div class="li">
 The method getClob() returned wrong data for data type VARCHAR(MAX).</div>
</li>
<li class="level1">
<div class="li">
 Changed the default value of impltran for PDataSource to false.</div>
</li>
</ul>
</div>

<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 conditions.</div>
</li>
</ul>
</div>
inetdae6 and inetdae7a).</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 altogether 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>


<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
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For more information, go to the package home page at
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Anders Moeller
amoeller@brics.dk

src/plugin/lib-nekohtml/lib/nekohtml-0.9.4.jar

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src/plugin/clustering-carrot2/lib/violinstrings-1.0.2.jar

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src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.jar
src/plugin/clustering-carrot2/lib/carrot2-snowball-stemmers.jar
src/plugin/clustering-carrot2/lib/carrot2-util-tokenizer.jar
src/plugin/clustering-carrot2/lib/carrot2-local-core.jar

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ASF

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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csrc/plugin/parse-swf/lib/javaswf.jar

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csrc/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

/*--
$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp $

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 */
package com.lingway.ld;

import java.util.Arrays;
import java.io.Serializable;

/**
 * A gram tree is used to learn n-grams from texts, and is able to score a text.
 * The n-gram data is represented as a lexical tree. The representation is rather compact, but one
 * could do better with annotated-DFAs.
 * Not thread-safe.
 * @author Cedric CHAMPEAU<cedric-dot-champeau-at-laposte.net>
 */
public class GramTree implements Serializable {

private final Node root;
private long gramcount;
private int min,max;

public GramTree(int min, int max) {
root = new Node(' ');
gramcount = 0;
this.min = min;
this.max = max;
}

public void learn(CharSequence text) {
NGramTokenizer tokenizer = new NGramTokenizer(text, min, max);
for (CharSequence token : tokenizer) {
addGram(token);
}
}
private void addGram(CharSequence gram) {
    Node cur = root;
    for (int i=0; i<gram.length();i++) {
        char c = gram.charAt(i);
        Node next = cur.getChild(c);
        if (next==null) next = cur.addTransition(c);
        cur = next;
        if (i==gram.length()-1) cur.inc();
    }
    gramcount++;
}

gramcount;

public void compress() {
    root.compress();
}

public double scoreText(CharSequence text, boolean explain) {
    NGramTokenizer tokenizer = new NGramTokenizer(text, min, max);
    double tot = 0;
    for (CharSequence charSequence : tokenizer) {
        double s = scoreGram(charSequence);
        if (explain) {
            System.out.println(charSequence + " scores "+s);
        }
        tot += s;
    }
    double score = tot / Math.log(gramcount);
    if (explain) {
        System.out.println(text+", total "+tot + "/"+Math.log(gramcount)+"="+score);
    }
    return score;
}

private double scoreGram(CharSequence gram) {
    Node cur = root;
    for (int i=0; i<gram.length();i++) {
        char c = gram.charAt(i);
        Node next = cur.getChild(c);
        if (next==null) return 0;
        cur = next;
    }
    return Math.log(cur.freq);
}

private static class Node implements Serializable, Comparable<Node> {
    private final static int DEFAULT_ALLOC = 64;
    char c;
}
Node[] children;
long freq;
int childcount;

private Node(char c) {
    this.c = c;
    this.freq = 0;
    this.childcount = 0;
}

public Node addTransition(char c) {
    Node child = new Node(c);
    if (children==null) {
        children = new Node[DEFAULT_ALLOC];
    }
    if (childcount==children.length-1) {
        // reallocate
        Node[] realloc = new Node[children.length+DEFAULT_ALLOC];
        System.arraycopy(children, 0, realloc, 0, children.length);
        children = realloc;
    }
    children[childcount] = child;
    childcount++;
    Arrays.sort(children, 0, childcount);
    return child;
}

private void inc() {
    freq++;
}

public int compareTo(Node o) {
    return c-o.c;
}

public Node getChild(char c) {
    for (int i=0; i<childcount;i++) {
        if (children[i].c==c) return children[i];
        if (children[i].c>c) return null;
    }
    return null;
}

private void compress() {
    if (childcount==0) return;
    Node[] children2 = new Node[childcount];
    System.arraycopy(children,0,children2,0,childcount);
    children = children2;
for (Node child : children) {
    child.compress();
}

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4.334 jsr305 3.0.2
4.335 jul-to-slf4j-1.7.5.jar 1.7.5

4.336 JUnit 4.12

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4.337 JUnit 4.8.2

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4.339 jxl 1.4.2_02-b03

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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:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one.html.html

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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src/plugin/lib-jakarta-poi/lib/poi-scratchpad-3.5-beta4-20081128.jar

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Anders Moeller
amoeller@brics.dk

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src/plugin/response-json/lib/ezmorph-1.0.6.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

/*
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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/"""--

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src/plugin/lib-xml/lib/xercesImpl.jar

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  licenseType='apache-2.0'
  version='2.4.D1'
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    projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-submit.jar' />
</module>

<module name='creative-commons'
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JUnit test library (junit-3.8.1.jar)

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Jon Stevens <jon at collab.net> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance improvements to Perl5Substition as well as adding support for \UuLIE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.
Harald Kuhn <harald at ontopia.net> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
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In addition, mere aggregation of another work not based on the Library
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instead of to this License. (If a newer version than version 2 of the
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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.
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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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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We call this license the "Lesser" General Public License because it

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encourage the widest possible use of a certain library, so that it becomes

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library does the same job as widely used non-free libraries. In this

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prepared so as to be conveniently linked with application programs

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must

be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

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License instead of this License to a given copy of the Library. To do

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Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

If distribution of object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the

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Library is used in it and that the Library and its use are covered by

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during execution displays copyright notices, you must include the

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of these things:

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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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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

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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

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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Historical notes
----------------

FreeMarker 1.x was released under the LGPL license. Later, by community consensus, we have switched over to a BSD-style license. As of FreeMarker 2.2pre1, the original author, Benjamin Geer, has relinquished the copyright in behalf of Visigoth Software Society.

With FreeMarker 2.3.21 the license has changed to Apache License, Version 2.0, and the owner has changed from Visigoth Software Society to three of the FreeMarker 2.x developers, Attila Szegedi, Daniel Dekany, and Jonathan Revusky.

1. WORKING WITH MAVEN

Requirements:

* Java 5.0 and above
* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of output at every stage.

* mvn clean: Cleans out any old builds and binaries

* mvn compile: Compiles java source code.

* mvn test: Runs the TestNG unit test suite on the compiled code. Will also compile the tests. See the testing section below for more information on running different test groups. The default test groups run are the "unit" and "functional".

* mvn package: Packages the module as a JAR file, the resulting JAR file will be in target/
* mvn package -Dmaven.test.skip=true: Creates a JAR file without running tests.

* mvn package -P Docs: Packages the module as a JAR file, and builds the javadocs and user documentation from docbook sources.

Important! Please note that if you try to generate user documentation using OpenJDK (at least build 14.0-b15) you might see an exception like this:

```
java.lang.NullPointerException
at org.apache.fop.render.pdf.FopPDFImage.setup(FopPDFImage.java:144)
at org.apache.fop.pdf.PDFDocument.addImage(PDFDocument.java:794)
at org.apache.fop.render.pdf.PDFRenderer.putImage(PDFRenderer.java:1725)
at org.apache.fop.render.pdf.PDFRenderer.renderImage(PDFRenderer.java:1652)
```

This appears to be a known issue: https://lists.launchpad.net/openjdk/msg00820.html. To get around the issue, simply switch to Sun JDK 5 or 6 to generate documentation.

* mvn install: will install the artifacts in your local repo for use by other projects (such as JBoss Cache POJO edition which depends on JBoss Cache Core). Will also use Maven's assembly plugin to build ZIP files for download (in target/distribution)

* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

* mvn clean site -Ptest-functional,codeCoverage: will run all tests in the test-functional profile and generate code coverage reports using EMMA.

1.2. Setting up your username and password to make releases and snapshot release

You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```
<settings>
...

<servers>
...
```
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.

```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:

```bash
$ 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:

```bash
-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.

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* mvn deploy: will build and deploy the project to the JBoss snapshots repository. Note that you should have your WebDAV username and password set up. (Deploys snapshots to http://snapshots.jboss.org/maven2/org/jboss/cache/). If you have a non-SNAPSHOT version number in your pom.xml, it will be deployed to the live releases repository (see below)

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You will also have to configure maven to use your username and password to access the repository. For this, you will have to modify the servers section of maven settings file ($MAVEN_HOME/conf/settings.xml, or ~/.m2/settings.xml).

Something similar to the following should be added:

```xml
<settings>
  ...
  <servers>
    ...
    <server>
      <id>jboss-developer</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.

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--------------------------
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```
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Please refer to the POM file for more properties and permutations.
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CruiseControl should do the following:

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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by
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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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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 library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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MySQL Connector/J 5.1.36

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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.

You may also find the latest copy of the documentation on the MySQL website at

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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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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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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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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.

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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object

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* Documentation Location
* Third-Party Component Notices

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d) If a facility in the modified Library refers to a function or a

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table of data to be supplied by an application program that uses

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the facility, other than as an argument passed when the facility

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is invoked, then you must make a good faith effort to ensure that,

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in the event an application does not supply such function or

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table, the facility still operates, and performs whatever part of

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its purpose remains meaningful.

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(For example, a function in a library to compute square roots has
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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

file is unrestricted, regardless of whether it is legally a derivative

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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.

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<!-- $MVDS:fontset("Sans Serif","Arial","Helvetica","Monaco") -->
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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."/>
</head>
<body bgcolor="white">
<p>
<table width="100%" cellpadding="2" cellspacing="0" border="0">
<tr>
<td width="30%" valign=center>
<p>
<font face="Arial,Helvetica,Monaco"><a href="../index.html"><img src="../../images/logo.jpg" width="360" height="100" vspace="0" hspace="0" alt="Wintertree Software Inc." border="0" loop="0"></a></font></td>
<td width="70%" valign=right>
<h2 align=right>
Sentry Spelling Checker Engine</h2>
</td>
</tr>
</table></p>
<p>
<table width="100%" cellpadding="2" cellspacing="0" border="0">
<tr>
<td width="100%" bgcolor="#C0FFC0" valign=center>
<p>
<font face="Arial,Helvetica,Monaco"><a href="../index.html"><font


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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

Version: 8.06
Last Modified: 15. Apr 2015

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<li class="level2"><div class="li"><span class="li"><a href="#failover-on-getconnection" class="inlinetoc">10.1 Failover on getConnection()</a></span></div></li>
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<li class="level1"><div class="li"><span class="li"><a href="#snapshot-transaction-isolation" class="inlinetoc">11. Snapshot Transaction Isolation</a></span></div>
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<li class="level1"><div class="li"><span class="li"><a href="#documentation" class="inlinetoc">14. Documentation</a></span></div>
<li class="level1"><div class="li"><span class="li"><a href="#known-problems" class="inlinetoc">15. Known problems</a></span></div>
<li class="level1"><div class="li"><span class="li"><a href="#using-ssl-connections" class="inlinetoc">16. Using SSL connections</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#create-a-certificate-request" class="inlinetoc">16.1. Create a Certificate Request</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#create-a-certificate-with-the-certificate-server" class="inlinetoc">16.2. Create a Certificate with the Certificate Server</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#installing-a-certificate" class="inlinetoc">16.3. Installing a Certificate</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#uninstalling-a-certificate" class="inlinetoc">16.4. Uninstalling a Certificate</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#forcing-protocol-encryption" class="inlinetoc">16.5. Forcing Protocol Encryption</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#the-driver-option-securelevel" class="inlinetoc">16.6 The Driver Option secureLevel</a></span></div></li>
</ul>
<li class="level1"><div class="li"><span class="li"><a href="#changes" class="inlinetoc">17. Changes</a></span></div>
<ul class="inlinetoc">
<li class="level2"><div class="li"><span class="li"><a href="#changes-in-version-500-merlia-200-9-dec-2002" class="inlinetoc">17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)</a></span></div></li>
<li class="level2"><div class="li"><span class="li"><a href="#changes-in-version-501-merlia-201-5-feb-2003" class="inlinetoc">17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)</a></span></div></li>
</ul>
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)
17.11 Changes in Version 6.05 (13. Sep 2005)
17.16 Changes in Version 7.01 (27. Jun 2007)
17.20 Changes in Version 7.05 (25. Mar 2009)
17.21 Changes in Version 7.06 (2. Oct 2009)
17.24 Changes in Version 8.00 (23. Mar 2011)
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.:
or extract the jar in the directory of the applet.

</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>

<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
<li class="level1">Microsoft SQL Server 7.0</li>
<li class="level1">Microsoft SQL Server 6.5</li>
</ul>

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</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>
</tbody>
</table>
A more complete list can be found at:

http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features

2.3. Check Host Name and Port Number of Your Server

This driver works with Microsoft SQL Servers configured to use the TCP/IP networking protocol. Please verify that your server is currently listening on a TCP/IP port.

If you know that your SQL Server is listening on a TCP/IP port and you know the host name of your SQL Server and the port number you can go to the next chapter. To check or enable the TCP/IP Sockets protocol follow these steps:
For Microsoft SQL Server 6.5:

Click -SQL Setup- in the MS SQL Server program group. If not selected, select -Change Network Support-, select -TCP/IP- and enter the port number you want to use (default port: 1433). If -Change Network Support- is selected, then cancel the setup.

For Microsoft SQL Server 7.0:

Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if necessary) and click OK.

The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:

```
telnet <hostname or ip address> <port number>
```

If the connection is refused then the hostname or the port number is incorrect.

2.4 Login Types

The SQL Server supports three authentication types. These are:

- SQL Server authentication
- Mixed Mode authentication
- Windows authentication
1. Windows NT authentication (trusted connection)
   Mixed (or both) authentications
<ul>
<li> 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:
   <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.
</li>
</ul>

2. 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
<td class="col0">com.inet.tds.TdsDataSource</td><td class="col1">This is a simple DataSource. Also named JDBC 1 DataSource. </td></tr>
<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 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>
</table></div>
<p>For a list of DataSource Properties look in the <a href="doc/index.html" target="_blank" class="wikilink1">API documentation</a>.
</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 <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>
</div>
2.7 JDBC URL Syntax of the driver

- jdbc:inetdae7:hostname:portnumber
- jdbc:inetdae7:hostname
  - with default port 1433
- jdbc:inetdae7:hostname/instancename
  - with named instance of MS SQL Server 2000 and 2005, required the UDP port 1434
- jdbc:inetdae7:<em>servername/pipe/pipename |</em>
  - with named pipes
  - jdbc:inetdae7:<em>servername/pipe/MSSQL$instancename/sql/query</em>

2.8 JDBC URL Syntax of the Pooled Driver

The pooled driver is only part of OPTA and MERLIA.

Examples:

- jdbc:inetpool:inetdae7:www.inetsoftware.de:1433
- jdbc:inetpool:inetdae7:localHost:1433
<li class="level1"><div class="li">jdbc:inetdae7:210.1.164.19:1433</div></li>
<li class="level1"><div class="li">jdbc:inetdae7:[2002:d201:a413::d201:a413]:1433</div></li>
<li class="level1"><div class="li">jdbc:inetpool:inetdae7://MyServer/pipe/sql/query</div></li>
<li class="level1"><div class="li">jdbc:inetpool:jdbc:inetdae7:www.inetsoftware.de:1433</div></li>
<li class="level1"><div class="li">jdbc:inetpool:jdbc:inetdae7:localHost:1433</div></li>
<li class="level1"><div class="li">jdbc:inetpool:jdbc:inetdae7://MyServer/pipe/sql/query</div></li>
<li class="level1"><div class="li">jdbc:inetpool:jdbc:inetdae7://MyServer/pipe/sql/query</div></li>

<h3 id="implemented-driver-properties">2.9 Implemented Driver Properties</h3>
<div class="table"><table class="inline">
<tr class="row0">
<th class="col0 leftalign">database</th><td class="col1 leftalign">default is the user default database</td>
</tr>
<tr class="row1">
<th class="col0 leftalign">language</th><td class="col1 leftalign">default is "" → SQL Server default language</td>
</tr>
<tr class="row2">
<th class="col0 leftalign">user</th><td class="col1 leftalign">the database user, if empty the current windows user is used</td>
</tr>
<tr class="row3">
<th class="col0 leftalign">password</th><td class="col1 leftalign">password of the database user</td>
</tr>
<tr class="row4">
<th class="col0 leftalign">charset</th><td class="col1 leftalign">see Character Converting</td>
</tr>
<tr class="row5">
<th class="col0 leftalign">initSQL</th><td class="col1 leftalign">This expression is executed once per
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nowarnings</td>
<td>&quot;true&quot; getWarnings() returns null</td>
</tr>
<tr>
<td>logging</td>
<td>default is &quot;false&quot;&lt;br&gt;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&lt;br&gt;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 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&lt;br&gt;Set the time in seconds that an unused PreparedStatement handle is live before it is unprepared. A value of 0 means an unlimited live time.</td>
</tr>
<tr>
<td>lastUpdateCount</td>
<td>default is &quot;false&quot;&lt;br&gt;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>Column</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>loginTimeout</td>
<td>Override the value from DriverManager.getLoginTimeout()</td>
</tr>
<tr>
<td>queryTimeout</td>
<td>Default is 5 * loginTimeout. Set the default query timeout for all Statements.</td>
</tr>
<tr>
<td>JAVA_OBJECT</td>
<td>Default is &quot;true&quot;. The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().</td>
</tr>
</tbody>
</table>
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 "false", creates always a transaction with setAutoCommit( false ); |<br/>
|----------------------|--------------------------------------------------------------------------------------------------|
| dstsave              | default is true<br/>
| 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()<br/>
| fastbatch            | default is true<br/>
| fetchsize            | i-net UNA only, the method executeQuery() always uses server cursors with this fetch size. The other drivers can use Statement.setFetchSize()<br/>
| 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:<br/>
| instance             | override the value in the JDBC URL. required the UDP port 1434<br/>
**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. The default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default value which is by default 4096.

**mode**                 Only for DataSources. The value is equals to the JDBC sub protocol. See the API documentation for more details.

**typeMapping**          default is jdbc4. Which data type constant should be used from the driver. Available options are jdbc3, jdbc4 and odbc. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.

**sqlxml**               default is false, if true then getObject(x) returns an instance of SQLXML if the data type is XML.

There are three ways to put the properties to the driver:

1. append the properties to the URL like jdbc:inetdae:hostname:portnumber?database=MyDb&language=deutsch
2. call method getConnection(String url, Properties info) from the driver manager.
3. create a DataSource and set the properties with the set methods.
2.10 Connections to the MSDE 2000 Release A

You need to enable "Mixed Authentication" and enable the TCP/IP network protocol if you do not want to use named pipes. For example, you can use the following line for the setup of the MSDE:

```
ssetup 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)

---

ClassicDriver.java

PooledDriver.java
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 PLEXAtm) comes with i-net OPTA®.

How to use the JDBCRowSet from i-net software (i-net OPTA®).

How to use the JNDI
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

```
{d 'yyyy-mm-dd'}
{t 'hh:mm:ss[.fff]'}
{ts 'yyyy-mm-dd hh:mm:ss[.fff]'}
```

### 4.2 Stored Procedures

```java
st = con.createStatement();
st.execute("{call MyProc('value')}"y)
```

```java
pr = con.prepareStatement("{call MyProc('value')}"");
pr.setString("value");
pr.executeUpdate();
```

### 4.3 Functions

#### Numeric Functions

```java
{fn ABS(number)}
```
Math Functions

{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)}

Time and Date Functions

{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPADD(interval, datetime, datetime2)}

interval may be one of the following:

SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR

<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'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>

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:
<pre class="code">test string.getBytes( charset );</pre>

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: &quot;INSERT INTO myTable(ntext field) VALUES( N'national text' )&quot;
5.1 JDBC 4.0 API

JDBC 4.0 <abbr title="Application Programming Interface">API</abbr> is supported with i-net Merlia driver running in Java 6 environment. With JDBC 4.0 comes new functions to set unicode strings explicit, e.g. PreparedStatement.setNString(int,String). All previous functions like PreparedStatement.setString(int,String) are reduced to support <abbr title="American Standard Code for Information Interchange">ASCII</abbr> characters only. If you need this compatibility then you have to use &quot;inetdae7a&quot; subprotocol. If you want all String setter functions support unicode characters, use &quot;inetdae7&quot; subprotocol.

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 &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.OHER 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
- 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 <a
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:
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>
</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.

</p>

</p>

A simple statement can be faster because the MS SQL Server needs to use the execution plan only once. In this case the MS SQL Server can detect that it can convert downward the static parameter.

</p>

</p>

Solutions:<br/>
1.) Use the correct set method.

</p>

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)

</p>

3.) Change the data type of the table.

</p>

</div>

<h3 id="numeric-columns-and-sql-server-2000-sp4">7.4 Numeric columns and SQL Server 2000 SP4</h3>

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. <br/>
E.g. \&quot;select * from testnumeric where a = CAST(\( AS numeric(7,0)\)&quot;)

</p>

</div>

<h2 id="scrolling-cursor-types">8. Scrolling Cursor Types</h2>

</div>

```sql
<table>
<thead>
<tr>
<th>id</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>col0</td>
<td>ID</td>
</tr>
<tr>
<td>col1</td>
<td>Description</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 non-text, non-image values if timestamps are not available.</td>
</tr>
<tr>
<td>CONCUR_UPDATABLE+1</td>
<td>Intent to update locking. Places an update on the row. If the row is updated, the cursor is moved to the next row.</td>
</tr>
</tbody>
</table>

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.

Dynamic cursor:
The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods return always false.
intent lock on the data page that contains each row as it is fetched. If not inside an open transaction, the locks are
released when the next fetch is performed. If inside an open transaction, the locks are released when the transaction
is closed. </td>
</tr>
<tr class="row4">
<td class="col0"> CONCUR_UPDATABLE+2 </td><td class="col1"> Optimistic concurrency control using
values. Changes to a row through the cursor succeed only if the row remains unchanged since the last fetch. Changes
are detected by comparing all nontext, nonimage values. </td>
</tr>
</table></div>

<h2 id="failover">10. Failover</h2>

<h3 id="failover-on-getconnection">10.1 Failover on getConnection()</h3>

<p>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.</p>

<p>For example:<br />
jdbc:inedae7:YourHost?database=northwind&amp;failover=true&amp;failoverhost=YourHost2<br />
jdbc:inedae7:YourHost?failover=true&amp;failoverport=1500</p>

<p>To set more than one failover possibility, use the following syntax:<br />
jdbc:inedae7:YourHost?failover=true&amp;host1=AFurtherHost&amp;port1=AFurtherPort&amp;host2=AFurtherHost
&amp;port2=AFurtherPort<br />
host[N] and port[N] must form pairs, otherwise they will be ignored.</p>

<h3 id="failover-with-clusters">10.2 Failover with Clusters</h3>

<p>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.</p>
10.3 Monitored Failover

With the interface FailoverListener it is possible to manage the reconnection process. The FailoverListener receives an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not. The Connection tryes to reconnect to the same server with the same properties. If reconnection was successful, all Statements, PreparedStatements and CallableStatements will be restored. The ResultSets won't be restored. For restore that, you have to executed the Statement again.


10.3.1 Configuration via Connection properties

There are multiple possibilities about how to configure the Monitored Failover.

It is possible to use the default implementation of the FailoverListener or to use your own implementation.

The default FailoverListener is similar to the TimedFailoverListener in the samples package.

To every created Connection automatically an instance of the configured FailoverListener will be added.

Set a FailoverListener via Connection properties:

<table>
<thead>
<tr>
<th>name</th>
<th>default</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>useDefaultFailoverListener</td>
<td>false</td>
<td>if set on true, a default FailoverListener will be added automatically to every Connection</td>
</tr>
<tr>
<td>waitTimeToNextAttempt</td>
<td>500</td>
<td>property for the default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt.</td>
</tr>
<tr>
<td>totalTimeOfAttempts</td>
<td>30</td>
<td>property for the default FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished.</td>
</tr>
</tbody>
</table>
failoverListener</td> <td class="col1">-</td> <td class="col2">the class name of your own FailoverListener implemtation. This class has to implement the FailoverListener interface AND the default public constructor. This is important to create a new instance of this class via reflection. </td></tr></table></div>

example URLs:<br/>
jdbc:inetpool:inetora:localhost?database=orcl&amp;useDefaultFailoverListener=true&amp;waitTimeToNextAttempt=10&amp;totalTimeOfAttempts=10<br/>
</p>

</div>

<h3 id="configuration-in-java">10.3.2 Configuration in Java</h3>

<p>For more flexibility it is also possible to manage the registered FailoverListener of a Connection in Java. A FailoverListener can be only added to a Connection, that implements the interface TAFConnection. Those Connection can be received from:
</p>

<ul>
<li class="level1"><div class="li">com.inet.pool.PoolDriver</div></li>
<li class="level1"><div class="li">com.inet.ora.PDataSource</div></li>
<li class="level1"><div class="li">com.inet.tds.PDataSource</div></li>
<li class="level1"><div class="li">com.inet.syb.PDataSource</div></li>
<li class="level1"><div class="li">com.inet.drda.PDataSource</div></li>
</ul>

The interface TAFConnection allows you to add and remove a FailoverListener to/from the Connection. example:<br/>

<pre class="code java">
//receive a Connection
Class.forName("com.inet.pool.PoolDriver";</pre>
Connection con = DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl","scott","tiger");

//add a FailoverListener
FailedoverListener fl = new samples.MonitoredFailover.CounteredFailoverListener(99);
(TAFConnection con).addFailoverListener(fl);

//remove a FailoverListener
(TAFConnection con).removeFailoverListener(fl);

//remove all FailoverListener
(TAFConnection con).removeAllFailoverListener();

FailoverListener fls = getFailoverListener();

The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation level but you can use it with this driver. There are the following possible solutions:

- Modify the database
  You can modify the database with the following SQL statement
  ```sql
  ALTER DATABASE <database name> SET ALLOW_SNAPSHOT_ISOLATION ON
  ```
If you do not change the level at using of connection then you can set it at creation of the connection with:
\[
\text{initSQL} = \text{SET TRANSACTION ISOLATION LEVEL SNAPSHOT}
\]

You can also change it with the following Java line:
\[
\text{conn.createStatement().execute("SET TRANSACTION ISOLATION LEVEL SNAPSHOT")};
\]

Since version 6.08.04 you can also set it via API with:
\[
\text{conn.setTransactionIsolation(4096)};
\]

If you have problems with the driver then you can enable the logging of the driver. There are different solutions.

<table>
<thead>
<tr>
<th>Solutions</th>
<th>examples</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>DriverManager.setLogStream(PrintStream)</td>
<td>DriverManager.setLogStream( System.out );DriverManager.setLogStream( new FileOutputStream(&quot;c:\driver.log&quot;) );</td>
<td>This method is deprecated but it work with all JDBC drivers.</td>
</tr>
<tr>
<td>DriverManager.setPrintWriter(PrintWriter)</td>
<td>DriverManager.setPrintWriter( new PrintWriter( System.out ) );</td>
<td>work not with JDBC 1.22 driver like i-net UNA</td>
</tr>
<tr>
<td>Application Server</td>
<td>Enable the JDBC logging in the server console on the node servers/myserver/logging/JDBC</td>
<td>You can set it for every DataSource in the config file</td>
</tr>
</tbody>
</table>
with:<br/>
....<br/>
&lt;attribute name="LoggingEnabled"&gt;true&lt;/attribute&gt;&lt;br/&gt;
.... &lt;td class="col2 leftalign"&gt; &lt;/td&gt;
&lt;/tr&gt;
&lt;tr class="row4"&gt;
 &lt;td class="col0"&gt; myDataSource.setPrintWriter(PrintWriter) &lt;/td&gt;&lt;td class="col1"&gt; myDataSource.setPrintWriter( new PrintWriter( System.out ) ) &lt;/td&gt;&lt;td class="col2"&gt; enable the logging only for connections from this DataSource &lt;/td&gt;
&lt;/tr&gt;
&lt;tr class="row5"&gt;
 &lt;td class="col0"&gt; JDBC &lt;abbr title="Uniform Resource Locator">URL</abbr> option &quot;logging=true&quot;&lt;br/&gt;
 &lt;/td&gt;&lt;td class="col1"&gt; jdbc:inetdae7:localhost?logging=true &lt;/td&gt;&lt;td class="col2 leftalign"&gt; &lt;/td&gt;
&lt;/tr&gt;
&lt;/table&gt;&lt;/div&gt;

&lt;/div&gt;

&lt;h2 id="support">13. Support&lt;/h2&gt;
&lt;div class="level2"&gt;

&lt;p&gt;Before you ask our support staff for assistance please check out our &lt;a href="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm" class="urlextern" target="_blank" title="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm">FAQ</a>&lt;/a&gt;. Thank you very much for your collaboration.&lt;/p&gt;

&lt;p&gt;The latest support information are available at: &lt;a href="http://www.inetsoftware.de/support" class="urlextern" target="_blank" title="http://www.inetsoftware.de/support">http://www.inetsoftware.de/support</a&gt;&lt;/p&gt;

&lt;p&gt;Support is available per email (replace at with @):&lt;/p&gt;
&lt;/p&gt;
&lt;div class="table ">&lt;table class="inline"&gt;
 &lt;tr class="row0"&gt;
 &lt;td class="col0"&gt; Licensing, Pricing, Updates, ... &lt;/td&gt;&lt;td class="col1"&gt; sales at inetsoftware.de &lt;/td&gt;
 &lt;/tr&gt;
 &lt;tr class="row1"&gt;
 &lt;td class="col0"&gt; i-net UNA &lt;/td&gt;&lt;td class="col1"&gt; una at inetsoftware.de &lt;/td&gt;
 &lt;/tr&gt;
 &lt;tr class="row2"&gt;
 &lt;td class="col0"&gt; i-net SPRINTA &lt;/td&gt;&lt;td class="col1"&gt; sprinta at inetsoftware.de &lt;/td&gt;
 &lt;/tr&gt;
 &lt;tr class="row3"&gt;
 &lt;td class="col0"&gt; i-net OPTA &lt;/td&gt;&lt;td class="col1"&gt; opta at inetsoftware.de &lt;/td&gt;
 &lt;/tr&gt;
&lt;/table&gt;&lt;/div&gt;
You can find more documentation at:
http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm

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"
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&quot; and the output value is &quot;abc     &quot; you receive the value &quot;abc&quot;).

The classes Array, Ref and <abbr title="Uniform Resource Locator">URL</abbr> are not supported because this are not supported by the SQL Server.

The following methods are not supported by this release:

- `PreparedStatement.setArray (int i, Array x)`
- `PreparedStatement.setRef (int i, Ref x)`
- `PreparedStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-abbr-x"`
- `CallableStatement.getObject (int i, java.util.Map map)`
- `CallableStatement.getRef (int i)`
- `CallableStatement.getArray (int i)`
- `CallableStatement.getURL ="int-i"`
- `All method with a named parameter.`
- `DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)`
- `DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)`
- `ResultSet.getObject (int i, java.util.Map map)`
- `ResultSet.getRef (int i)`
- `ResultSet.getArray (int i)`
- `ResultSet.getURL ="int-i"`
- `ResultSet.updateArray (int i, Array x)`
- `ResultSet.updateRef (int i, Ref x)`
- `All setXXX methods in Blob and Clob.`
16. Using SSL connections

If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to install:

- a server-wide certificate on the computer with the MS SQL Server 2000.

Note: You don’t need to install a certificate when using SQL Server 2005. The SQL Server 2005 installs a certificate on setup.

WARNING: After you have installed this certificate, connecting via ODBC only works with SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate (not from a public Certificate Authority such as Verisign or Thawty) then you’ll need to add it to every ODBC client.

the JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4 and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need to download the JSSE and add it to your classpath.

SSL is required for the SQL Server 2005 if you want to use all new features like data types or MARS. The following step by step description is not a public documentation of the Microsoft Certificate technology. There might be some errors in the text or better solutions for working with Microsoft certificates.

16.1. Create a Certificate Request

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
Run the Internet Services Manager that is located in the Administrative Tools folder.

Right-click on the Default Web Site node for the server and select "Properties" from the context menu.

Click on the "Directory Security" tab.

Click on the "Server Certificate" button. A wizard should appear.

Click the "Next" button.

The "Create a new certificate" radio button should be selected. Click the "Next" button.

The "Prepare request now, but send it later" radio button should be selected. Click the "Next" button.

Click the "Next" button.

Enter your organization name and unit and click the "Next" button.

In the Common name field enter the fully qualified IP hostname of your server. e.g., www.inetsoftware.de. Click the "Next" button.

Enter your State and City. Click the "Next" button.

Accept the default file name of c:\certreq.txt and click the "Next" button.

Click the Next button, then click Finish.

This Certificate Request must be sent to a Certification Authority. You can work with a public Certification Authority and pay money for your the certificate or you can use your own certificate server.

This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
Install the Microsoft Certificate Services. You should not do it on the same computer hosting the MS SQL Server.

Run Notepad and open c:\certreq.txt. Hit Ctrl+A to select the entire text. Hit Ctrl+C to copy the text to the clipboard.

Run Internet Explorer and enter the URL:

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 &quot;computer account&quot;.

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

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.

16.5. Forcing Protocol Encryption

16.6 The Driver Option secureLevel
<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>
  <li> For XA support the extended procedures was replaced with a NT-Service.</li>
  <li> The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.</li>
</ul>

<h3 id="changes-in-version-501-merlia-201-5-feb-2003">17.2 Changes in Version 5.01 (MERLIA 2.01) (5. Feb 2003)</h3>

<ul>
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.

A bug withCachedRowSet 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 &quot;money&quot;.

A dead-lock that could occur in PoolManager.closeAll() was fixed.

The error &quot;Cookie from MSDTC is null&quot; was fixed.
A bug with setCharacterStream() not working with inetdak7a 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 &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.

- 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 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 DTDataSource 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.
&lt;li class="level1"&gt;&lt;div class="li"&gt; "Create View ..." and "Create Procedure ..." executed as PreparedStatement now works with SQL Server 2005.&lt;/div&gt;&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; The ResultSet created by Statement.execute() now is from the type defined with Connection.createStatement(int,int)&lt;/div&gt;&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; Log output extended with information about Connection ID&lt;/div&gt;&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; Performance improvement in ResultSet class.&lt;/div&gt;&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and PoolManager.getUsedConnectionCount(Object).&lt;/div&gt;&lt;/li&gt;
&lt;li class="level1"&gt;&lt;div class="li"&gt; Reading out type money and type smallmoney from sql_variant column was fixed.&lt;/div&gt;&lt;/li&gt;
&lt;/ul&gt;

&lt;div class="level3"&gt;&lt;ul&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; New driver property "dstsave"&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; Receiving a BigDecimal from a BIT column is implemented now. (Threw a NumberFormatException before)&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; Reading NULL values from MONEY columns with getDouble() has been fixed to not throw an Exception anymore.&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; Reading values from MONEY columns with getDouble() has been fixed to return correct values.&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; Since version 6.05 CachedRowSet.populate(ResultSet) didn’t worked. This is fixed now.&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally was shared between the copies. This produced Exceptions if one CachedRowSet was closed.&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; An excrescent stacktrace log output was removed. (SocketException)&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; TdsDriver.getPropertyInfo() was extended, more properties. Values and choices were added.&lt;/div&gt;&lt;/li&gt;&lt;li class="level1"&gt;&lt;div class="li"&gt; Since version 6.05: If a statement was already prepared, executing it as batch failed.&lt;/div&gt;&lt;/li&gt;
<li class="level1"><div class="li"> SQL Server 2005: Fixed a protocol problem with setting a Boolean value and Types.Bit to PreparedStatement.setObject().</div></li>

<li class="level1"><div class="li"> Behaviour change for input parameter that are streams. Those parameter have to reset for every execution.</div></li>

<li class="level1"><div class="li"> PreparedStatement.setObject(int, Object, int, int) and PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and InputStream values in addition.</div></li>

<li class="level1"><div class="li"> since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was executed with PreparedStatement.execute() and Driver subprotocol inetdae7 and inetdae7a.</div></li>

<li class="level1"><div class="li"> since 6.04.12, prepare end execute statements didn’t worked with SQL Server 7.</div></li>

<li class="level1"><div class="li"> Multiple protocol changes to adapt driver to final SQL Sever 2005. Fix the bug with transaction.</div></li>

<li class="level1"><div class="li"> Adapte meta data requests to changes made in final SQL Server 2005.</div></li>

<li class="level1"><div class="li"> In very seldom cases ResultSet.getString() was returning wrong values in a multiprocessor environment.</div></li>


<ul>
<li class="level1"><div class="li"> When the PreparedStatement contained a character sequence in SQL like &#39;&#8211;&#39;, the parameters following were ignored.</div></li>

<li class="level1"><div class="li"> Problems with version UNA and SPRINTA with SQL Server 2005 and connecting via instance name was solved. (workaround was to set &quot;tds9=false&quot; in JDBC <abbr title="Uniform Resource Locator">URL</abbr>)</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</div></li>
and not null.</div>
</li>
<li class="level1"><div class="li"> The method PoolManager.getFreeConnectionCount() now again returns the value for all DataSources. Since version 6.05 it only returned the value from the first DataSource.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: ResultSetMetaData.getColumnClassName() didn't regard the max data types of SQL Server 2005. An "unknown type" Exception was thrown before.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: PreparedStatement.setString with empty String value sends null instead of empty String.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: If a TEXT column was selected and the table in FROM clause was fully qualified, the Driver threw an error "column type XX is unknown".</div>
</li>
<li class="level1"><div class="li"> An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeXXX() was fixed. The exception could occur with an additional PreparedStatement pool.</div>
</li>
<li class="level1"><div class="li"> Since 6.04.15, in very seldom cases, the data in ResultSet could be corrupt, if multiple ResultSets were executed.</div>
</li>
<li class="level1"><div class="li"> NPE fix in Statement close() call.</div>
</li>
<li class="level1"><div class="li"> IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.</div>
</li>
<li class="level1"><div class="li"> Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.</div>
</li>
<li class="level1"><div class="li"> A protocol violation with the data types VARBINARY(max), VARCHAR(max) and NVARCHAR(max) of the SQL Server 2005 was fixed.</div>
</li>
<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>

- 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 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 &quot;xz2005&quot; 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,

- 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.

- \emph{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 \emph{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.

- Fix a bug with Windows NT authentication and SQL Server 2005.
A fix for the message "Fatal error on prepare. Connection will be closed." which occurred with mars=true and SQL Server 2005 was fixed.

The error "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.

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().
<li class="level1"><div class="li"> Classes DTDataSource4 and PDataSource4 were added for 100% JDBC 4.0 compliance.</div></li>


<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 "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></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 "Unknown parameter datatype:-16 - null" with PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.</div></li>
<li class="level1"><div class="li"> Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and prepare=false.</div></li>
</ul>


<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>
</ul>
A wrong ResultSet type was returned if a fetch size was set on a forward-only ResultSet.

Fixed some bugs in setClientInfo(String, String) and optimized performance.

Removed the finalize() method from the Connection object.

Fixed a hanging of the 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 URL property sqlxml.
- The method getClob() returned wrong data for data type VARCHAR(MAX).
- Changed the default value of impltran for PDataSource to false.


- A infinite loop was fixed with 32-bit characters in a PreparedStatement string parameter in ASCII mode (sub protocol inetdae6 and inetdae7a).
- A regression with ParameterMetaData note setting parameters was fixed.
- An ArrayIndexOutOfBoundsException on ResultSet.getObject(x) without a
starting next() for a scrolling ResultSet was fixed.
</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>
<li class="level1"><div class="li"> A TYPE_FORWARD_ONLY, CONCUR_UPDATABLE ResultSet was jumped to the first row position if you update a row and access a value on this row.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> Does not use the package sun.misc.* on Java 6 and newer.</div>
</li>
</ul>
</div>

<div class="level3">
<ul>
<li class="level1"><div class="li"> A DatagramSocket leak with JDBC connections with instance name was fixed. In very rare conditions the follow exception can occur: SocketException: maximum number of DatagramSockets reached</div>
</li>
<li class="level1"><div class="li"> Add support for setObject with Types.BLOB and a value of byte[] or InputStream was added.</div>
</li>
<li class="level1"><div class="li"> Fix an ArrayIndexOutOfBoundsException and/or wrong values with getTimestamp(x,Calendar) on DATETIME2 column with a precision smaller 7.</div>
</li>
</ul>
</div>

<div class="level3">
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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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/parse-html/lib/tagsoup-1.2.jar

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src/plugin/parse-pdf/lib/PDFBox-0.7.4-dev.jar

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src/plugin/lib-xml/lib/jdom.jar

/*--
$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp$

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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

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4.401 Postgres v8.0.3 8.0.3

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4.402 postgresql-jdbc 42.2.4

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</div> <!-- pgContentWrap -->
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People who have contributed significant code to the project since the 7.4 release. A careful historical study has not been commissioned, but if you've done something valuable, we'd be happy to recognize you for it. Just let us know.

Jan Andre le Roux

ResultsetMetaData information based on the V3 protocol

Jaroslaw J. Pyszny

Improve MetaData regarding the serial datatype

Ulrich Meis

Allow users to customize the SSL connection

Xavier Poinsard
<ul>
<li>Standard escaped functions \{fn ...() \}</li>
</ul>

<li>Oliver Siegmar</li>
<ul>
<li>Support for infinity in the timestamp datatype</li>
<li>Make PGInterval able to decode and manipulate interval data</li>
</ul>

<li>Michael Barker</li>
<ul>
<li>Blob write and position methods.</li>
</ul>

<li>Andras Kadinger</li>
<ul>
<li>Support asynchronous notification retrieval.</li>
</ul>

<li>Heikki Linnakangas</li>
<ul>
<li>XADDataSource implementation.</li>
</ul>

<li>Luis Vilar Flores</li>
<ul>
<li>Reduce memory usage retrieving bytea data.</li>
</ul>

<li>Michael Paesold</li>
<ul>
<li>Correctly parse dollar quotes and comments.</li>
<li>Work with standard_conforming_strings = on.</li>
</ul>

<li>Mikko Tiihonen</li>
<ul>
<li>Improve speed of parsing ResultSet data.</li>
</ul>

<li>Marek Lewczuk</li>
<ul>
<li>Support multi-dimensional arrays and NULL array elements.</li>
</ul>
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- **cs** - Czech
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- **de** - German
  - Andre Bialojahn

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  - Diego A. Gil

- **fr** - French
  - Xavier Poinsard

- **it** - Italian
  - Giuseppe Sacco

- **pl** - Polish
  - Jaroslaw Pyszny

- **pt_BR** - Brazilian Portuguese
  - Euler Taveira de Oliveira

- **ru** - Russian
  - Serguei Mokhov

- **sr** - Serbian
  -
4.403 proxytoys 1.0

4.404 quartz 1.5.1

4.404.1 Available under license:

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$Id: LICENSE.txt,v 1.3 2003/06/29 18:22:02 ssanders Exp $

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4.406 relaxngDatatype 1.4.2_10-b03

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JUnit test library (junit-3.8.1.jar)

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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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    }

    public static void main(String argv[]) {
        System.out.println(getVersion());
    }

}
* Name of product: Xalan.

public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
* Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes. When missing, it designates the final and complete development drop for a release.

```java
/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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4.417 sigar 1.5.0_12-b04

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4.423 slf4j-log4j12 1.7.25

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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 { @link Logger Logger} interface. Note that the logging levels mentioned in this class * refer to those defined in the
 * @author Ceki Gürçü
 */
public final class Log4jLoggerAdapter extends MarkerIgnoringBase implements LocationAwareLogger {
    final org.apache.log4j.Logger logger;

    /**
     * Following the pattern discussed in pages 162 through 168 of
     * "The complete log4j manual".
     */
    final static String FQCN = Log4jLoggerAdapter.class.getName();

    // WARN: Log4jLoggerAdapter constructor should have only package access so that
    // only Log4jLoggerFactory be able to create one.
    Log4jLoggerAdapter(org.apache.log4j.Logger logger) {
        this.logger = logger;
    }

    public String getName() {
        return logger.getName();
    }

    /**
     * Is this logger instance enabled for the TRACE level?
     */

/**
 * Log a message object at level TRACE.
 * @param msg - the message object to be logged
 */
public void trace(String msg) {
    logger.log(FQCN, Level.TRACE, msg, null);
}

/**
 * Log a message at level TRACE according to the specified format and argument.
 *
 * @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.
 *
 * @param format the format string
 * @param arg1  the first argument
 * @param arg2  the second argument
 */
public void trace(String format, Object arg1, Object arg2) {
    if (logger.isTraceEnabled()) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.TRACE, msgStr, null);
    }
}
/**
 * Log a message at level TRACE according to the specified format and
 * arguments.
 *
 * <p>This form avoids superfluous object creation when the logger
 * is disabled for the TRACE level. </p>
 *
 * @param format the format string
 * @param argArray an array of arguments
 */
public void trace(String format, Object[] argArray) {
    if (logger.isTraceEnabled()) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.TRACE, msgStr, null);
    }
}

/**
 * Log an exception (throwable) at level TRACE with an
 * accompanying message.
 *
 * @param msg the message accompanying the exception
 * @param t the exception (throwable) to log
 */
public void trace(String msg, Throwable t) {
    logger.log(FQCN, Level.TRACE, msg, t);
}

/**
 * Is this logger instance enabled for the DEBUG level?
 *
 * @return True if this Logger is enabled for level DEBUG, false
 * otherwise.
 */
public boolean isDebugEnabled() {
    return logger.isDebugEnabled();
}

/**
 * Log a message object at level DEBUG.
 *
 * @param msg - the message object to be logged
 */
public void debug(String msg) {
}
logger.log(FQCN, Level.DEBUG, msg, null);
}
/**
 * Log a message at level DEBUG according to the specified format and argument.
 *<p>This form avoids superfluous object creation when the logger is disabled for level DEBUG. </p>
 * @param format the format string
 * @param arg the argument
 */
public void debug(String format, Object arg) {
    if (logger.isDebugEnabled()) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.DEBUG, msgStr, null);
    }
}
/**
 * Log a message at level DEBUG according to the specified format and arguments.
 *<p>This form avoids superfluous object creation when the logger is disabled for the DEBUG level. </p>
 * @param format the format string
 * @param 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 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);
    }
}
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>
 * @param format the format string
 * @param argArray an array of arguments
 */
public void warn(String format, Object[] argArray) {
    if (logger.isEnabledFor(Level.WARN)) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.WARN, msgStr, null);
    }
}
/**
 * Log an exception (throwable) at the WARN level with an accompanying message.
 * @param msg the message accompanying the exception
 * @param t the exception (throwable) to log
 */
public void warn(String msg, Throwable t) {
    logger.log(FQCN, Level.WARN, msg, t);
}
/**
 * Is this logger instance enabled for level ERROR?
 * @return True if this Logger is enabled for level ERROR, false otherwise.
 */
public boolean isErrorEnabled() {
    return logger.isEnabledFor(Level.ERROR);
}
/**
 * Log a message object at the ERROR level.
 *
 * @param msg - the message object to be logged
 */
public void error(String msg) {
    logger.log(FQCN, Level.ERROR, msg, null);
}

/**
 * Log a message at the ERROR level according to the specified format and argument.
 *
 * <p>This form avoids superfluous object creation when the logger is disabled for the ERROR level. </p>
 *
 * @param format the format string
 * @param arg the argument
 */
public void error(String format, Object arg) {
    if (logger.isEnabledFor(Level.ERROR)) {
        String msgStr = MessageFormatter.format(format, arg);
        logger.log(FQCN, Level.ERROR, msgStr, null);
    }
}

/**
 * Log a message at the ERROR level according to the specified format and arguments.
 *
 * <p>This form avoids superfluous object creation when the logger is disabled for the ERROR level. </p>
 *
 * @param format the format string
 * @param arg1 the first argument
 * @param arg2 the second argument
 */
public void error(String format, Object arg1, Object arg2) {
    if (logger.isEnabledFor(Level.ERROR)) {
        String msgStr = MessageFormatter.format(format, arg1, arg2);
        logger.log(FQCN, Level.ERROR, msgStr, null);
    }
}

/**
 * Log a message at level ERROR according to the specified format and arguments.
 */
This form avoids superfluous object creation when the logger is disabled for the ERROR level.

@param format the format string
@param argArray an array of arguments

public void error(String format, Object[] argArray) {
    if (logger.isEnabledFor(Level.ERROR)) {
        String msgStr = MessageFormatter.arrayFormat(format, argArray);
        logger.log(FQCN, Level.ERROR, msgStr, null);
    }
}

/**
 * Log an exception (throwable) at the ERROR level with an accompanying message.
 *
 * @param msg the message accompanying the exception
 * @param t the exception (throwable) to log
 */
public void error(String msg, Throwable t) {
    logger.log(FQCN, Level.ERROR, msg, t);
}

public void log(Marker marker, String callerFQCN, int level, String msg, Throwable t) {
    Level log4jLevel;
    switch(level) {
    case LocationAwareLogger.TRACE_INT:
        log4jLevel = Level.TRACE;
        break;
    case LocationAwareLogger.DEBUG_INT:
        log4jLevel = Level.DEBUG;
        break;
    case LocationAwareLogger.INFO_INT:
        log4jLevel = Level.INFO;
        break;
    case LocationAwareLogger.WARN_INT:
        log4jLevel = Level.WARN;
        break;
    case LocationAwareLogger.ERROR_INT:
        log4jLevel = Level.ERROR;
        break;
    default:
        throw new IllegalStateException("Level number "+level+" is not recognized.");
    }
}
logger.log(callerFQCN, log4jLevel, msg, t);
;
;

4.425 slf4j-simple 1.5.6

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4.426 slf4j-simple 1.7.25

4.427 snappy-java 1.1.1.6

4.428 solr-solrj 4.1.0

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  <module name='ant'
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    version='2.5'
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    description='Annotations of JCIP'>
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</module>

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    description='ANT (compile time), needed for generation of test reports'>
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    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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tax2 extension API (for basic Stax API, JSR-173)

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4.457 StAX_IUELSLv1.1.1 1.2.0

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4.459 Streaming API for XML 1.0-2

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   <jar name='bnd.jar' />
</module>

<module name='Bouncy castle'
       licenseType='bouncycastle'
       version='1.17'
       projectHome='http://www.bouncycastle.org'
       description='Encryption algorithms. Used by ENCRYPT and AUTH (runtime)'>
   <jar name='bouncycastle.jar' />
</module>

<module name='Beanshell'
       licenseType='lgpl (dual license, but LGPL may be chosen)'
       version='2.0b5'
       projectHome='http://www.beanshell.org'
       description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
   <jar name='bsh.jar' />
</module>

<module name='byteman'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
   <jar name='byteman.jar' />
</module>

<module name='byteman-bmunit'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
   <jar name='byteman-bmunit.jar' />
</module>

<module name='byteman-install'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
   <jar name='byteman-install.jar' />
</module>

<module name='byteman-submit'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
<jar name='byteman-submit.jar' />
</module>

<module name='creative-commons' 
licenseType='creative-commons'
version='2.5'
projectHome='http://creativecommons.org/licenses/by/2.5/'
description='Annotations of JCIP'>
.jar name='none (part of src tree: org.jgroups.annotations)' />
</module>

<module name='log4j' 
licenseType='apache-2.0'
version='1.2.14'
projectHome='http://logging.apache.org/
description='Java logging framework (runtime)'>
.jar name='log4j.jar' />
</module>

<module name='serializer' 
licenseType='apache-2.0'
version='1.6.5'
projectHome='http://ant.apache.org/
description='ANT (compile time), needed for generation of test reports'>
.jar name='serializer.jar' />
</module>

<module name='testng' 
licenseType='apache-2.0'
version='6.8'
projectHome='http://www.testng.org'
description='Used for unit testing'>
.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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4.475 Woodstox 3.2.7

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The specification of DOM Level 1’s various parts is at:

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http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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4.488 xercesImpl 2.12.0

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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' />
</module>
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4.501 XMLTooling 1.3.4

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4.502 xom 1.1
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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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5.13 antlr4 4.6.0

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lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
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5.47 eclipse-collections-api 8.0.0

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5.48 el-impl 2.2.0.wso2v1

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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);
}

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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);
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   * (non-Javadoc)
   */
  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 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);
    }
  }
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;

    /**
     * @see java.io.Externalizable#writeExternal(java.io.ObjectOutput)
     */
    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
    }

}
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()));
    }
}

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 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) {
        }
    }
}
e.printStackTrace();
}
}
return this.m;
}

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;

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;
    }
}

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* holder.
 */
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) {
            return (n.image == null);
        }
        return this.image.equals(n.image);
    }
    return this.children.equals(n.children);
}

@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 (n.image == null);
        }
        return this.image.equals(n.image);
    }
    return this.children.equals(n.children);
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.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. Expressions that cannot be used as l-values must always return true. Details. Expressions that cannot be used as l-values must always return true.

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 ELContext is used to resolve the top-level variables and to determine the behavior of the expression. 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, ELResolver#isReadOnly or ELResolver#getType method, depending on which was called on the ValueExpression.

See the notes about comparison, serialization and immutability in the 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 $
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.createValueExpression</code> method
 *         that created this <code>ValueExpression</code>.
 *
 * @see javax.el.Expression#getType(javax.el.ELContext)
 */
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)
 * @since 1.0
 */
public ValueReference getValueReference(ELContext context)
    throws PropertyNotFoundException, ELException {
    EvaluationContext ctx = new EvaluationContext(context, this.fnMapper,
    this.varMapper);
    return this.getNode().getValueReference(ctx);
}
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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*/

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.MethodExpression;
import javax.el.MethodInfo;
import javax.el.MethodNotFoundException;
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>
 * <code>The {@link ExpressionFactory#createMethodExpression} method
 * can be used to parse an expression string and return a concrete instance
 * of <code>MethodExpression</code> that encapsulates the parsed expression.</code>
 * 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>
 * 
 * <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> and <code>[]</code>
 * operators. 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,
 * the final <code>property</code> is then coerced to a <code>String</code>,
 * 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>
 * 
 * <p>See the notes about comparison, serialization and immutability in
 * the {@link Expression} javadocs.</p>
 * 
 @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;

/**
 * @param expr
 * @param node
 * @param fnMapper
 * @param expectedType
 * @param paramTypes
 */
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;
}

/**
 * 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.
Note that two expressions can be equal if their expression Strings are different. For example, \( \{\text{fn1:foo()}\} \) and \( \{\text{fn2:foo()}\} \) are equal if their corresponding \( \text{FunctionMapper} \)'s mapped \( \text{fn1:foo} \) and \( \text{fn2:foo} \) to the same method.

```java
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 \( \text{Expression} \), unmodified.

This is used for debugging purposes but also for the purposes of comparison (e.g. to ensure the expression in a configuration file has not changed).

```java
public String getExpressionString() {
    return this.expr;
}
```
/**
 * Evaluates the expression relative to the provided context, and returns
 * information about the actual referenced method.
 *
 * @param context
 * @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>.  
 * 
 * <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
 * @param params
 * @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.ELException;
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 $$DateTime: 2001/06/26 08:45:09 $$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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5.54 fullcalendar 2.3.2

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* Use fullcalendar.css for basic styling. * For event drag & drop, required jQuery UI draggable. * For event resizing, requires jQuery UI resizable. *

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Other developers who have contributed code are:

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5.75 jQuery 1.7.2

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5.77 jQuery 1.8.3

5.78 jQuery-1.9.1 1.9.1

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5.80 jQuery-migrate-1.2.1 1.2.1

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5.81 jquery-minicolors-2.1.10 2.1.10

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5.98 jquery.jqGrid-4.6.0 4.6.0

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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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5.105 JQuery.UI.Touch-Punch_0.2.2 0.2.2

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5.108 jQueryThrottleDebounce.1.1 1.1

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5.113 junit 4.12

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lib/csharp/src/Protocol/TTuple.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TStreamTransport.cs
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lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
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lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st

test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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--------------------------------------------------
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================

Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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4.0.30506.0

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<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
<meta name=Generator content="Microsoft Word 14 (filtered)">
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5.128 Microsoft.Bcl.Build 1.0.21
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```csharp
using Microsoft.Bcl.Build;

public class Program
{
    public static void Main()
    {
        // Sample code
    }
}
```

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\b\\s19\lang1033\langfe1033\loch\f40\hich\fa40\dbch\faf11\cgrid\langnp\f033\langfnp\f033\bsbasedon10\sbasedon10\slink31\slocked\styrsid15686224 Heading 3 Bold Char;}{\s39\additive\rtlch\fcs1\ab\af40\afs19\ltrch\fcs0\b\\s19\lang1033\langfe1033\loch\f40\hich\fa40\dbch\faf11\cgrid\langnp\f033\langfnp\f033\bsbasedon30\snext35

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\b\\s19\lang1033\langfe1033\loch\f40\hich\fa40\dbch\faf11\cgrid\langnp\f033\langfnp\f033\bsbasedon41\snext41\slink43\sbasedon10\snext41\slink43\ssemihidden\sunhideused\styrsid3699522 Balloon Text;}{\s46\ql\li0\ri0\sb120\sa120\widctlpar\jlclisttab\tx1080\wrapdefault\aspalpha\aspnum\faauto\adjustright\rin0\lin0\itap0\rtlch\fcs1\ab\af40\afs16\alang1025\ltrch\fcs0

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5.129 Microsoft.Net.Http 2.2.28

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5.130 Microsoft.Owin 3.0.1

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<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
<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:SimSun;
panose-1:2 1 6 0 3 1 1 1 1 1;}
@font-face
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@font-face
{font-family:"Trebuchet MS";
panose-1:2 1 1 6 3 2 2 2 2 2 4;}
@font-face
</style>
</head>
Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0

15192
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15193
This installation contains the following software, the license terms of each of which are included below:

- Microsoft ASP.NET Model View Controller 3 Tools Update
Microsoft ASP.NET Web Pages

Microsoft Package Manager for .NET

Microsoft software update to Visual Studio, KB2483190

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b) Use a suitable shared library mechanism for linking with the
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For an executable, the required form of the "work that uses the
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components (compiler, kernel, and so on) of the operating system on
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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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.

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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5.160 require-text-plugin 2.0.0

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5.177 validation.js 1.5.4.1

5.177.1 Available under license :
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http://tetlaw.id.au/view/javascript/really-easy-field-validation
Andrew Tetlaw
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5.178 WebGrease 1.5.2
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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>
<!--[if !IE]><!-->
/* 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 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;}
@font-face
{font-family:"Trebuchet MS";
 panose-1:2 1 1 6 3 2 2 2 2 2 4;}
<!--[endif]-->
Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0
Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0
Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0
Open Source Used In Open Source Used In Unified Contact Center Enterprise 12.0

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<p class="bullet4" style="font-size:10.0pt; font-family:Times New Roman; color:black;">distribute Distributable Code included in a setup program only as part of that setup program without modification;</p>

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<p class="heading3Bold" style="font-size:10.0pt; font-family:Times New Roman; color:black;">iii. <span class="body3Char" style="font-size:10.0pt; font-family:Times New Roman; color:black;">Distribution Restrictions.</span></p>

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5.179 wss4j 2.0.2

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Implementation and Compiler 1.1

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6.7 annogen 0.1.0

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databinding

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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6.65 Apache Tuscany SCA Interface 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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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,
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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6.165 ganymed-ssh2 build250

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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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
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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.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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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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6.177 Hibernate/c3p0 Integration 4.3.6.Final

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6.183 HttpCore (base module) 4.0-beta1

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6.184 HttpCore (base module) 4.0-beta1

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
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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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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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.

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6.204 Java Persistence API, Version 2.1
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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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6.266 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
/**
 * Logback: the reliable, generic, fast and flexible logging framework.
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 * *
 * This program and the accompanying materials are dual-licensed under
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6.277 mousetrap 1.5.3

6.278 MXP1: Xml Pull Parser 3rd Edition
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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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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
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.

@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) {
            // 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
     * @since 1.5.1
     */
    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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tax2 extension API (for basic Stax API, JSR-173)

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6.328 Streaming API for XML (STAX API 1.0)

1.0.1

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6.343 Xerces2 Java Parser 2.9.0

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with the Library, with the complete machine-readable "work that
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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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6.356 XStream Core 1.3.1

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