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

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

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

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

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

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

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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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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 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
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  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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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

****

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jboss-common-jdbc-wrapper.jar

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

            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

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library, and (2) we offer you this license, which gives you legal

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permission to copy, distribute and/or modify the library.

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To protect each distributor, we want to make it very clear that

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there is no warranty for the free library. Also, if the library is

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modified by someone else and passed on, the recipients should know

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that what they have is not the original version, so that the original

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author's reputation will not be affected by problems that might be

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introduced by others.

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Finally, software patents pose a constant threat to the existence of

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any free program. We wish to make sure that a company cannot

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restrictive license from a patent holder. Therefore, we insist that

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other authorized party saying it may be distributed under the terms of

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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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you conspicuously and appropriately publish on each copy an

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appropriate copyright notice and disclaimer of warranty; keep intact

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

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

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Library.

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

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

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fee.

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2. You may modify your copy or copies of the Library or any portion

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of it, thus forming a work based on the Library, and copy and

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distribute such modifications or work under the terms of Section 1

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

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

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

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

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

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

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

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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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this License, whose permissions for other licensees extend to the

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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

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your rights to work written entirely by you; rather, the intent is to

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exercise the right to control the distribution of derivative or

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collective works based on the Library.

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

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with the Library (or with a work based on the Library) on a volume of

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a storage or distribution medium does not bring the other work under

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the scope of this License.

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

213

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

214

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

215

instead of to this License. (If a newer version than version 2 of the

216

ordinary GNU General Public License has appeared, then you can specify

217

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

218

these notices.

219

220

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

221

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

222

subsequent copies and derivative works made from that copy.

223

224

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

225

the Library into a program that is not a library.

226

227

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

228

derivative of it, under Section 2) in object code or executable form

229

under the terms of Sections 1 and 2 above provided that you accompany

230

it with the complete corresponding machine-readable source code, which

231

must be distributed under the terms of Sections 1 and 2 above on a

232

medium customarily used for software interchange.

233

234

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

235

from a designated place, then offering equivalent access to copy the

236

source code from the same place satisfies the requirement to

237

distribute the source code, even though third parties are not

238

compelled to copy the source along with the object code.

239

240

5. A program that contains no derivative of any portion of the

241

Library, but is designed to work with the Library by being compiled or

242

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

243

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

244

therefore falls outside the scope of this License.

245

246

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

247

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

248

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

249

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

250

Section 6 states terms for distribution of such executables.

251

252

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

253

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

254

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

255

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

256

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

257

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

258

259

If such an object file uses only numerical parameters, data

260

structure layouts and accessors, and small macros and small inline

261

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

262

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

263

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

264

Library will still fall under Section 6.)

265

266

Otherwise, if the work is a derivative of the Library, you may

267

distribute the object code for the work under the terms of Section 6.

268

Any executables containing that work also fall under Section 6,

269

whether or not they are linked directly with the Library itself.

270

271

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

272

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

273

work containing portions of the Library, and distribute that work

274

under terms of your choice, provided that the terms permit

275

modification of the work for the customer's own use and reverse

276

engineering for debugging such modifications.

277

278

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

279

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

280

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

281

during execution displays copyright notices, you must include the

282

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

283

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

284

of these things:

285

286

  a) Accompany the work with the complete corresponding

287

machine-readable source code for the Library including whatever

288

changes were used in the work (which must be distributed under

289

Sections 1 and 2 above); and, if the work is an executable linked

290

with the Library, with the complete machine-readable "work that

291

uses the Library", as object code and/or source code, so that the

292

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

293

executable containing the modified Library. (It is understood

294

that the user who changes the contents of definitions files in the

295

Library will not necessarily be able to recompile the application

296

to use the modified definitions.)

297

298

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

299

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

300

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

301

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

302

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

303

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

304

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

305

306

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

307

least three years, to give the same user the materials

308

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

309

than the cost of performing this distribution.

310

311

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

312

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

313

  specified materials from the same place.

314

315

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

316

  materials or that you have already sent this user a copy.

317

318

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

319

Library" must include any data and utility programs needed for

320

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

321

the materials to be distributed need not include anything that is

322

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

323

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

324

which the executable runs, unless that component itself accompanies

325

the executable.

326

327

It may happen that this requirement contradicts the license

328

restrictions of other proprietary libraries that do not normally

329

accompany the operating system. Such a contradiction means you cannot

330

use both them and the Library together in an executable that you

331

distribute.

332

333

7. You may place library facilities that are a work based on the

334

Library side-by-side in a single library together with other library

335

facilities not covered by this License, and distribute such a combined

336

library, provided that the separate distribution of the work based on

337

the Library and of the other library facilities is otherwise

338

permitted, and provided that you do these two things:

339

340

  a) Accompany the combined library with a copy of the same work

341

  based on the Library, uncombined with any other library

342

  facilities. This must be distributed under the terms of the

343

  Sections above.

344

345

  b) Give prominent notice with the combined library of the fact

346

  that part of it is a work based on the Library, and explaining

347

  where to find the accompanying uncombined form of the same work.

348

349

8. You may not copy, modify, sublicense, link with, or distribute

350

the Library except as expressly provided under this License. Any

351

attempt otherwise to copy, modify, sublicense, link with, or

352

distribute the Library is void, and will automatically terminate your

353

rights under this License. However, parties who have received copies,

354

or rights, from you under this License will not have their licenses

355

terminated so long as such parties remain in full compliance.

356

357

9. You are not required to accept this License, since you have not

358

signed it. However, nothing else grants you permission to modify or

359

distribute the Library or its derivative works. These actions are

360

prohibited by law if you do not accept this License. Therefore, by

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modifying or distributing the Library (or any work based on the

362

Library), you indicate your acceptance of this License to do so, and

363

all its terms and conditions for copying, distributing or modifying

364

the Library or works based on it.

365

366

10. Each time you redistribute the Library (or any work based on the

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Library), the recipient automatically receives a license from the

368

original licensor to copy, distribute, link with or modify the Library

369

subject to these terms and conditions. You may not impose any further

370

restrictions on the recipients' exercise of the rights granted herein.

371

You are not responsible for enforcing compliance by third parties with

372

this License.

373

374

11. If, as a consequence of a court judgment or allegation of patent

375

infringement or for any other reason (not limited to patent issues),

376

conditions are imposed on you (whether by court order, agreement or

377

otherwise) that contradict the conditions of this License, they do not

378

excuse you from the conditions of this License. If you cannot

379

distribute so as to satisfy simultaneously your obligations under this

380

License and any other pertinent obligations, then as a consequence you

381

may not distribute the Library at all. For example, if a patent

382

license would not permit royalty-free redistribution of the Library by

383

all those who receive copies directly or indirectly through you, then

384

the only way you could satisfy both it and this License would be to

385

refrain entirely from distribution of the Library.

386

387

If any portion of this section is held invalid or unenforceable under any

388

particular circumstance, the balance of the section is intended to apply,

389

and the section as a whole is intended to apply in other circumstances.

390

391

It is not the purpose of this section to induce you to infringe any

392

patents or other property right claims or to contest validity of any

393

such claims; this section has the sole purpose of protecting the

394

integrity of the free software distribution system which is

395

implemented by public license practices. Many people have made

396

generous contributions to the wide range of software distributed

397

through that system in reliance on consistent application of that

398

system; it is up to the author/donor to decide if he or she is willing

399

to distribute software through any other system and a licensee cannot

400

impose that choice.

401

402

This section is intended to make thoroughly clear what is believed to

403

be a consequence of the rest of this License.

404

405

12. If the distribution and/or use of the Library is restricted in

406

certain countries either by patents or by copyrighted interfaces, the

407

original copyright holder who places the Library under this License may add

408

an explicit geographical distribution limitation excluding those countries,

409

so that distribution is permitted only in or among countries not thus

410

excluded. In such case, this License incorporates the limitation as if

411

written in the body of this License.

412

413

13. The Free Software Foundation may publish revised and/or new

414

versions of the Lesser General Public License from time to time.

415

Such new versions will be similar in spirit to the present version,

416

but may differ in detail to address new problems or concerns.

417

418

Each version is given a distinguishing version number. If the Library

419

specifies a version number of this License which applies to it and

420

"any later version", you have the option of following the terms and

421

conditions either of that version or of any later version published by

422

the Free Software Foundation. If the Library does not specify a

423

license version number, you may choose any version ever published by

424

the Free Software Foundation.

425

426

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427

programs whose distribution conditions are incompatible with these,

428

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429

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430

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431

decision will be guided by the two goals of preserving the free status

432

of all derivatives of our free software and of promoting the sharing

433

and reuse of software generally.

434

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Also add information on how to contact you by electronic and paper mail.

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school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library `Frob' (a library for tweaking knobs) written by James

Random Hacker.

, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

****

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http://gee.cs.oswego.edu/dl/classes/EDU/oswego/cs/dl/util/concurrent/intro.html

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==

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FreeMarker subcomponents with different copyright owners

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license as the license of FreeMaker, but the copyright owner is the
Apache Software Foundation. These files are:

  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 shapshot release
----

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

Something similar to the following should be added:

```
<settings>

...

 <servers>
...

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

 </servers>

...

</settings>
```

1.3. Deploying a release to a live repository

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

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

https://repository.jboss.org/nexus

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

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

Tests are written against the TestNG testing framework. Each test should belong to one or more group. The group acts as

a filter, and is used to select which tests are ran as part of the maven test lifecycle. There are 3 groups that are currently in use, but there is not formal, you can make up any group name if you like.

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

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

2.2. Executing the default test run

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

  $ mvn test

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

  $ mvn surefire-report:report

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

  $ mvn surefire-report:report-only

2.3. Executing different groups

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

  $ mvn -P test-jgroups test

2.4. Executing a single test

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

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

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

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

2.5. Executing all tests in a given package

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

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

2.6. Skipping the test run

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

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

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

2.7. Permutations

We use the term permutation to describe a group execution against a particular config. This allows us to test a variety
of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp
permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the
various options, environmental variables, etc. The command to run the jgroups-tcp permutatin is:

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

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

2.8. Running permutations manually or in an IDE

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

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

  -Djgroups.stack=tcp

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

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

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

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

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

1. WORKING WITH MAVEN
=====================

Requirements:

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* Maven 2.0.8 and above

1.1. Quickstart: Typical lifecycle phases

Maven will create a target/ directory under the root for the creation of
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* 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 shapshot release
----

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

<settings>

...

```
 <servers>
...

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

 </servers>

...

</settings>
```

1.3. Deploying a release to a live repository

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

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

https://repository.jboss.org/nexus

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

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

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

2.1. Current Groups

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

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

2.2. Executing the default test run

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

  $ mvn test

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

  $ mvn surefire-report:report

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

  $ mvn surefire-report:report-only

2.3. Executing different groups

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

  $ mvn -P test-jgroups test

2.4. Executing a single test

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

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

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

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

2.5. Executing all tests in a given package

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

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

2.6. Skipping the test run

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

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

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

2.7. Permutations

We use the term permutation to describe a group execution against a particular config. This allows us to test a variety
of environments and configurations without rewriting the same basic test over and over again. For example, the jgroups-tcp
permutation executes the jgroups group using the TCP config. Each permutation requires a maven profile which defines the
various options, environmental variables, etc. The command to run the jgroups-tcp permutatin is:

  $ mvn -Pjgroups-tcp surefire-report:report

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

2.8. Running permutations manually or in an IDE

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

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

-Djgroups.stack=tcp

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

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

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

2.9. Integration with CruiseControl / Hudson

CruiseControl should do the following:

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

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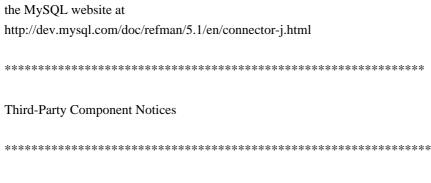of which version of the GPL is applied is otherwise unspecified.

CONTENTS

* Documentation Location
* Third-Party Component Notices

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

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
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Although the Lesser General Public License is Less protective of the
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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
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Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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 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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subsequent copies and derivative works made from that copy.

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the Library into a program that is not a library.

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

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

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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.)

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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.

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Preamble

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freedom to share and change it. By contrast, the GNU General Public

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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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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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To protect each distributor, we want to make it very clear that

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there is no warranty for the free library. Also, if the library is

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that what they have is not the original version, so that the original

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free software. For example, permission to use the GNU C Library in

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program which contains a notice placed by the copyright holder or

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other authorized party saying it may be distributed under the terms of

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Each licensee is addressed as "you".

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A "library" means a collection of software functions and/or data

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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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you conspicuously and appropriately publish on each copy an

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appropriate copyright notice and disclaimer of warranty; keep intact

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

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Library.

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

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fee.

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2. You may modify your copy or copies of the Library or any portion

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of it, thus forming a work based on the Library, and copy and

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distribute such modifications or work under the terms of Section 1

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

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

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

170

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

171

172

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

173

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

174

175

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

176

table of data to be supplied by an application program that uses

177

the facility, other than as an argument passed when the facility

178

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

179

in the event an application does not supply such function or

180

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

181

  its purpose remains meaningful.

182

183

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

184

  a purpose that is entirely well-defined independent of the

185

  application. Therefore, Subsection 2d requires that any

186

  application-supplied function or table used by this function must

187

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

188

  root function must still compute square roots.)

189

190

These requirements apply to the modified work as a whole. If

191

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

192

and can be reasonably considered independent and separate works in

193

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

194

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

195

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

196

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

197

this License, whose permissions for other licensees extend to the

198

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

199

it.

200

201

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

202

your rights to work written entirely by you; rather, the intent is to

203

exercise the right to control the distribution of derivative or

204

collective works based on the Library.

205

206

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

207

with the Library (or with a work based on the Library) on a volume of

208

a storage or distribution medium does not bring the other work under

209

the scope of this License.

210

211

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

212

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

213

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

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

215

instead of to this License. (If a newer version than version 2 of the

216

ordinary GNU General Public License has appeared, then you can specify

217

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

218

these notices.

219

220

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

221

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

222

subsequent copies and derivative works made from that copy.

223

224

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

225

the Library into a program that is not a library.

226

227

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

228

derivative of it, under Section 2) in object code or executable form

229

under the terms of Sections 1 and 2 above provided that you accompany

230

it with the complete corresponding machine-readable source code, which

231

must be distributed under the terms of Sections 1 and 2 above on a

232

medium customarily used for software interchange.

233

234

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

235

from a designated place, then offering equivalent access to copy the

236

source code from the same place satisfies the requirement to

237

distribute the source code, even though third parties are not

238

compelled to copy the source along with the object code.

239

240

5. A program that contains no derivative of any portion of the

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Library, but is designed to work with the Library by being compiled or

242

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

243

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

244

therefore falls outside the scope of this License.

245

246

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

247

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

248

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

249

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

250

Section 6 states terms for distribution of such executables.

251

252

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

253

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

254

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

255

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

256

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

257

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

258

259

If such an object file uses only numerical parameters, data

260

structure layouts and accessors, and small macros and small inline

261

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

262

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

263

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

264

Library will still fall under Section 6.)

265

266

Otherwise, if the work is a derivative of the Library, you may

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distribute the object code for the work under the terms of Section 6.

268

Any executables containing that work also fall under Section 6,

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whether or not they are linked directly with the Library itself.

270

271

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

275

modification of the work for the customer's own use and reverse

276

engineering for debugging such modifications.

277

278

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

280

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

281

during execution displays copyright notices, you must include the

282

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

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

284

of these things:

285

286

a) Accompany the work with the complete corresponding

287

machine-readable source code for the Library including whatever

288

changes were used in the work (which must be distributed under

289

Sections 1 and 2 above); and, if the work is an executable linked

290

with the Library, with the complete machine-readable "work that

291

uses the Library", as object code and/or source code, so that the

292

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

293

executable containing the modified Library. (It is understood

294

that the user who changes the contents of definitions files in the

295

Library will not necessarily be able to recompile the application

296

to use the modified definitions.)

297

298

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

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

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

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

302

  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

304

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

305

306

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

307

  least three years, to give the same user the materials

308

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

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than the cost of performing this distribution.

310

311

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.

314

315

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.

317

318

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

320

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

321

the materials to be distributed need not include anything that is

322

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

323

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

324

which the executable runs, unless that component itself accompanies

325

the executable.

326

327

It may happen that this requirement contradicts the license

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restrictions of other proprietary libraries that do not normally

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accompany the operating system. Such a contradiction means you cannot

330

use both them and the Library together in an executable that you

331

distribute.

332

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7. You may place library facilities that are a work based on the

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Library side-by-side in a single library together with other library

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facilities not covered by this License, and distribute such a combined

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library, provided that the separate distribution of the work based on

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the Library and of the other library facilities is otherwise

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permitted, and provided that you do these two things:

339

340

  a) Accompany the combined library with a copy of the same work

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  based on the Library, uncombined with any other library

342

  facilities. This must be distributed under the terms of the

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  Sections above.

344

345

  b) Give prominent notice with the combined library of the fact

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  that part of it is a work based on the Library, and explaining

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  where to find the accompanying uncombined form of the same work.

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infringement or for any other reason (not limited to patent issues),

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conditions are imposed on you (whether by court order, agreement or

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otherwise) that contradict the conditions of this License, they do not

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excuse you from the conditions of this License. If you cannot

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distribute so as to satisfy simultaneously your obligations under this

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License and any other pertinent obligations, then as a consequence you

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may not distribute the Library at all. For example, if a patent

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license would not permit royalty-free redistribution of the Library by

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all those who receive copies directly or indirectly through you, then

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the only way you could satisfy both it and this License would be to

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refrain entirely from distribution of the Library.

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If any portion of this section is held invalid or unenforceable under any

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particular circumstance, the balance of the section is intended to apply,

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and the section as a whole is intended to apply in other circumstances.

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391

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patents or other property right claims or to contest validity of any

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such claims; this section has the sole purpose of protecting the

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integrity of the free software distribution system which is

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implemented by public license practices. Many people have made

396

generous contributions to the wide range of software distributed

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through that system in reliance on consistent application of that

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system; it is up to the author/donor to decide if he or she is willing

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to distribute software through any other system and a licensee cannot

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impose that choice.

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402

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be a consequence of the rest of this License.

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certain countries either by patents or by copyrighted interfaces, the

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so that distribution is permitted only in or among countries not thus

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written in the body of this License.

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415

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418

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431

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432

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433

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****

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CONTENTS

* Documentation Location
* Third-Party Component Notices

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To protect your rights, we need to make restrictions that forbid

36

distributors to deny you these rights or to ask you to surrender these

37

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.

39

40

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

41

or for a fee, you must give the recipients all the rights that we gave

42

you. You must make sure that they, too, receive or can get the source

43

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

44

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

45

with the library after making changes to the library and recompiling

46

it. And you must show them these terms so they know their rights.

47

48

We protect your rights with a two-step method: (1) we copyright the

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library, and (2) we offer you this license, which gives you legal

50

permission to copy, distribute and/or modify the library.

51

52

To protect each distributor, we want to make it very clear that

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there is no warranty for the free library. Also, if the library is

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modified by someone else and passed on, the recipients should know

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that what they have is not the original version, so that the original

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author's reputation will not be affected by problems that might be

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introduced by others.

58

59

Finally, software patents pose a constant threat to the existence of

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any free program. We wish to make sure that a company cannot

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effectively restrict the users of a free program by obtaining a

62

restrictive license from a patent holder. Therefore, we insist that

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any patent license obtained for a version of the library must be

64

consistent with the full freedom of use specified in this license.

65

66

Most GNU software, including some libraries, is covered by the

67

ordinary GNU General Public License. This license, the GNU Lesser

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General Public License, applies to certain designated libraries, and

69

is quite different from the ordinary General Public License. We use

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this license for certain libraries in order to permit linking those

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libraries into non-free programs.

72

73

When a program is linked with a library, whether statically or using

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a shared library, the combination of the two is legally speaking a

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combined work, a derivative of the original library. The ordinary

76

General Public License therefore permits such linking only if the

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entire combination fits its criteria of freedom. The Lesser General

78

Public License permits more lax criteria for linking other code with

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the library.

80

81

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

82

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

83

Public License. It also provides other free software developers Less

84

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

85

are the reason we use the ordinary General Public License for many

86

libraries. However, the Lesser license provides advantages in certain

87

special circumstances.

88

89

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

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

91

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

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

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

94

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

95

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

96

97

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

98

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

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free software. For example, permission to use the GNU C Library in

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non-free programs enables many more people to use the whole GNU

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

102

system.

103

104

Although the Lesser General Public License is Less protective of the

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users' freedom, it does ensure that the user of a program that is

106

linked with the Library has the freedom and the wherewithal to run

107

that program using a modified version of the Library.

108

109

The precise terms and conditions for copying, distribution and

110

modification follow. Pay close attention to the difference between a

111

"work based on the library" and a "work that uses the library". The

112

former contains code derived from the library, whereas the latter must

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be combined with the library in order to run.

114

115

    GNU LESSER GENERAL PUBLIC LICENSE

116

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

117

118

0. This License Agreement applies to any software library or other

119

program which contains a notice placed by the copyright holder or

120

other authorized party saying it may be distributed under the terms of

121

this Lesser General Public License (also called "this License").

122

Each licensee is addressed as "you".

123

124

A "library" means a collection of software functions and/or data

125

prepared so as to be conveniently linked with application programs

126

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

127

128

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

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

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Library" means either the Library or any derivative work under

131

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

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portion of it, either verbatim or with modifications and/or translated

133

straightforwardly into another language. (Hereinafter, translation is

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included without limitation in the term "modification".)

135

136

"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

139

interface definition files, plus the scripts used to control compilation

140

and installation of the library.

141

142

Activities other than copying, distribution and modification are not

143

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

145

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

147

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.

149

150

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

152

you conspicuously and appropriately publish on each copy an

153

appropriate copyright notice and disclaimer of warranty; keep intact

154

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

155

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

156

Library.

157

158

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

159

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

160

fee.

161

162

2. You may modify your copy or copies of the Library or any portion

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of it, thus forming a work based on the Library, and copy and

164

distribute such modifications or work under the terms of Section 1

165

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

166

167

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

168

169

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

170

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

171

172

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

173

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

174

175

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

176

table of data to be supplied by an application program that uses

177

the facility, other than as an argument passed when the facility

178

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

179

in the event an application does not supply such function or

180

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

181

its purpose remains meaningful.

182

183

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

184

a purpose that is entirely well-defined independent of the

185

application. Therefore, Subsection 2d requires that any

186

application-supplied function or table used by this function must

187

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

188

root function must still compute square roots.)

189

190

These requirements apply to the modified work as a whole. If

191

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

192

and can be reasonably considered independent and separate works in

193

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

194

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

195

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

196

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

197

this License, whose permissions for other licensees extend to the

198

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

199

it.

200

201

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

202

your rights to work written entirely by you; rather, the intent is to

203

exercise the right to control the distribution of derivative or

204

collective works based on the Library.

205

206

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

207

with the Library (or with a work based on the Library) on a volume of

208

a storage or distribution medium does not bring the other work under

209

the scope of this License.

210

211

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

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

213

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

214

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

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instead of to this License. (If a newer version than version 2 of the

216

ordinary GNU General Public License has appeared, then you can specify

217

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

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these notices.

219

220

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

221

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

222

subsequent copies and derivative works made from that copy.

223

224

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

225

the Library into a program that is not a library.

226

227

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

229

under the terms of Sections 1 and 2 above provided that you accompany

230

it with the complete corresponding machine-readable source code, which

231

must be distributed under the terms of Sections 1 and 2 above on a

232

medium customarily used for software interchange.

233

234

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

235

from a designated place, then offering equivalent access to copy the

236

source code from the same place satisfies the requirement to

237

distribute the source code, even though third parties are not

238

compelled to copy the source along with the object code.

239

240

5. A program that contains no derivative of any portion of the

241

Library, but is designed to work with the Library by being compiled or

242

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

243

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

244

therefore falls outside the scope of this License.

245

246

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

247

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

248

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

249

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

250

Section 6 states terms for distribution of such executables.

251

252

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

253

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

254

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

255

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

256

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

257

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

258

259

If such an object file uses only numerical parameters, data

260

structure layouts and accessors, and small macros and small inline

261

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

262

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

263

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

264

Library will still fall under Section 6.)

265

266

Otherwise, if the work is a derivative of the Library, you may

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distribute the object code for the work under the terms of Section 6.

268

Any executables containing that work also fall under Section 6,

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whether or not they are linked directly with the Library itself.

270

271

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

272

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

273

work containing portions of the Library, and distribute that work

274

under terms of your choice, provided that the terms permit

275

modification of the work for the customer's own use and reverse

276

engineering for debugging such modifications.

277

278

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

279

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

280

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

281

during execution displays copyright notices, you must include the

282

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

283

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

284

of these things:

285

286

a) Accompany the work with the complete corresponding

287

machine-readable source code for the Library including whatever

288

changes were used in the work (which must be distributed under

289

Sections 1 and 2 above); and, if the work is an executable linked

290

with the Library, with the complete machine-readable "work that

291

uses the Library", as object code and/or source code, so that the

292

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

293

executable containing the modified Library. (It is understood

294

that the user who changes the contents of definitions files in the

295

Library will not necessarily be able to recompile the application

296

to use the modified definitions.)

297

298

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

299

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

300

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

301

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

302

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

303

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

304

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

305

306

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

307

least three years, to give the same user the materials

308

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

309

than the cost of performing this distribution.

310

311

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

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

313

specified materials from the same place.

314

315

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

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materials or that you have already sent this user a copy.

317

318

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

320

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

321

the materials to be distributed need not include anything that is

322

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

323

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

324

which the executable runs, unless that component itself accompanies

325

the executable.

326

327

It may happen that this requirement contradicts the license

328

restrictions of other proprietary libraries that do not normally

329

accompany the operating system. Such a contradiction means you cannot

330

use both them and the Library together in an executable that you

331

distribute.

332

333

7. You may place library facilities that are a work based on the

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Library side-by-side in a single library together with other library

335

facilities not covered by this License, and distribute such a combined

336

library, provided that the separate distribution of the work based on

337

the Library and of the other library facilities is otherwise

338

permitted, and provided that you do these two things:

339

340

  a) Accompany the combined library with a copy of the same work

341

  based on the Library, uncombined with any other library

342

  facilities. This must be distributed under the terms of the

343

  Sections above.

344

345

  b) Give prominent notice with the combined library of the fact

346

  that part of it is a work based on the Library, and explaining

347

  where to find the accompanying uncombined form of the same work.

348

349

8. You may not copy, modify, sublicense, link with, or distribute

350

the Library except as expressly provided under this License. Any

351

attempt otherwise to copy, modify, sublicense, link with, or

352

distribute the Library is void, and will automatically terminate your

353

rights under this License. However, parties who have received copies,

354

or rights, from you under this License will not have their licenses

355

terminated so long as such parties remain in full compliance.

356

357

9. You are not required to accept this License, since you have not

358

signed it. However, nothing else grants you permission to modify or

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distribute the Library or its derivative works. These actions are

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prohibited by law if you do not accept this License. Therefore, by

361

modifying or distributing the Library (or any work based on the

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Library), you indicate your acceptance of this License to do so, and

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all its terms and conditions for copying, distributing or modifying

364

the Library or works based on it.

365

366

10. Each time you redistribute the Library (or any work based on the

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Library), the recipient automatically receives a license from the

368

original licensor to copy, distribute, link with or modify the Library

369

subject to these terms and conditions. You may not impose any further

370

restrictions on the recipients' exercise of the rights granted herein.

371

You are not responsible for enforcing compliance by third parties with

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this License.

373

374

11. If, as a consequence of a court judgment or allegation of patent

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infringement or for any other reason (not limited to patent issues),

376

conditions are imposed on you (whether by court order, agreement or

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otherwise) that contradict the conditions of this License, they do not

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excuse you from the conditions of this License. If you cannot

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distribute so as to satisfy simultaneously your obligations under this

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License and any other pertinent obligations, then as a consequence you

381

may not distribute the Library at all. For example, if a patent

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license would not permit royalty-free redistribution of the Library by

383

all those who receive copies directly or indirectly through you, then

384

the only way you could satisfy both it and this License would be to

385

refrain entirely from distribution of the Library.

386

387

If any portion of this section is held invalid or unenforceable under any

388

particular circumstance, the balance of the section is intended to apply,

389

and the section as a whole is intended to apply in other circumstances.

390

391

It is not the purpose of this section to induce you to infringe any

392

patents or other property right claims or to contest validity of any

393

such claims; this section has the sole purpose of protecting the

394

integrity of the free software distribution system which is

395

implemented by public license practices. Many people have made

396

generous contributions to the wide range of software distributed

397

through that system in reliance on consistent application of that

398

system; it is up to the author/donor to decide if he or she is willing

399

to distribute software through any other system and a licensee cannot

400

impose that choice.

401

402

This section is intended to make thoroughly clear what is believed to

403

be a consequence of the rest of this License.

404

405

12. If the distribution and/or use of the Library is restricted in

406

certain countries either by patents or by copyrighted interfaces, the

407

original copyright holder who places the Library under this License may add

408

an explicit geographical distribution limitation excluding those countries,

409

so that distribution is permitted only in or among countries not thus

410

excluded. In such case, this License incorporates the limitation as if

411

written in the body of this License.

412

413

13. The Free Software Foundation may publish revised and/or new

414

versions of the Lesser General Public License from time to time.

415

Such new versions will be similar in spirit to the present version,

416

but may differ in detail to address new problems or concerns.

417

418

Each version is given a distinguishing version number. If the Library

419

specifies a version number of this License which applies to it and

420

"any later version", you have the option of following the terms and

421

conditions either of that version or of any later version published by

422

the Free Software Foundation. If the Library does not specify a

423

license version number, you may choose any version ever published by

424

the Free Software Foundation.

425

426

14. If you wish to incorporate parts of the Library into other free

427

programs whose distribution conditions are incompatible with these,

428

write to the author to ask for permission. For software which is

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copyrighted by the Free Software Foundation, write to the Free

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Software Foundation; we sometimes make exceptions for this. Our

431

decision will be guided by the two goals of preserving the free status

432

of all derivatives of our free software and of promoting the sharing

433

and reuse of software generally.

434

435

    NO WARRANTY

436

437

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

438

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439

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444

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that

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redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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.

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  License along with this library; if not, write to the Free Software
  Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

****
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Sentry Spelling Checker Engine</TD>
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SIZE="1">Home</FONT></A><FONT SIZE="1">
 > </FONT><A HREF="../../products.html"><FONT SIZE="1">Products</FONT></A><FONT SIZE="1">
 > </FONT><A HREF="../index.html"><FONT SIZE="1">Developer tools</FONT></A><FONT SIZE="1">
 > </FONT><A HREF="index.html"><FONT SIZE="1">Sentry Spelling
 Checker Engine</FONT></A><FONT SIZE="1"> > Specimen License Agreement</FONT></FONT></P>
<P ALIGN=CENTER>
 <HR ALIGN=CENTER WIDTH="100%" SIZE="2" NOSHADE>
 </P>
<H2>
 Specimen License Agreement</H2>
<P>

<I>Following is the actual text from the License Agreement included with the Sentry Spelling-Checker Engine SDKs, provided here as a specimen only</I>:</P>

<P>

This License Agreement defines the terms and conditions under which you (the Licensee) are permitted by Wintertree Software Inc. (the Licensor) to use the Sentry Spelling Checker Engine Software Development Kit.</P>

<H2>

I. Definitions</H2>

<P>

"Software Development Kit" shall mean and include the software programs and files needed to integrate the Sentry Spelling-Checker Engine with a software application, including documentation, examples, include files, declarations, source code, utility programs, and libraries.</P>

<P>

"Redistributable Software" shall mean and include the following software programs and files included with the Software Development Kit:</P>

<UL>

<LI>

<P>

The Sentry Spelling-Checker Engine in binary object form, executable form, or dynamic link-library form;</P>

<LI>

<P>

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

<LI>

<P>

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>

</UL>

<P>

"Application Program" shall mean and include one or more software programs created by the Licensee which uses the Sentry Spelling-Checker Engine.</P>

<H2>

II. License grant</H2>

<P>

Licensor hereby grants to Licensee, and Licensee hereby accepts, subject to the terms and conditions set forth in this Agreement, a non-exclusive license to use Software Development Kit as set forth in this Agreement. The term "license" as used in this Agreement shall mean and include:</P>

<OL>

```
<LI>
<P>
The right to use Software Development Kit on a single computer system
or workstation at one time;</P>
<LI>
<P>
The right to make a reasonable number of backup copies of Software
Development Kit;</P>
<LI>
<P>
The right to modify any source code provided with Software
Development Kit.</P>
<LI>
<P>
The right to redistribute one copy of the Redistributable Software
with each copy of the Licensee's Application Program.</P>
</OL>
<H2>
III. Transfer</H2>
<P>
The Software Development Kit is licensed to a single organization or
individual. The Software Development Kit may be transferred together
with this Agreement provided the transferee agrees to the terms and
conditions of this Agreement. The name and address of the transferee
must be reported to Licensor. When the Software Development Kit and
License Agreement are transferred, all copies, upgrades, prior
versions, and documentation must be either transferred or destroyed.
Transferring the Software Development Kit terminates this License
Agreement with the original Licensee.</P>
<H2>
IV. Restrictions</H2>
<P>
In accepting the license granted by Licensor, Licensee agrees that it
shall not</P>
<OL>
<LI>
<P>
Include the Redistributable Software with a product which is itself a
software development kit, software component, or software library;</P>
<LI>
<P>
Permit its end-users to redistribute the Redistributable Software;</P>
<LI>
<P>
Loan or rent Software Development Kit to a third party;</P>
<LI>
<P>
Attempt to disassemble or reverse-engineer software included with the
```

Software Development Kit;</P>
<LI>
<P>
Disclose the License Key provided with the Software Development Kit
to a third party without permission from the Licensor.</P>
</OL>
<H2>
V. Term of Agreement</H2>
<P>
The term of this Agreement shall commence at the time Licensee
receives Software Development Kit and shall continue in effect
indefinitely unless terminated as provided below.</P>
<H2>
VI. Termination of Agreement</H2>
<P>
The Licensee may terminate this Agreement at any time by destroying
all copies of Software Development Kit. In the event of a material
default by the Licensee or the Licensee's agent or representative, of
any provision of this Agreement, the Licensor may terminate this
Agreement upon thirty (30) days written notice, except that the
Licensee shall have thirty (30) days of receipt of notice of
termination. Upon termination of the Agreement, the Licensee shall
either destroy all licensed copies of Software Development Kit, and
all backups, or return them to Licensor. This obligation shall
survive the termination of this Agreement.</P>
<H2>
VII. Copyright and proprietary information</H2>
<P>
Licensee acknowledges that Software Development Kit and all
supporting documentation constitute valuable property of Licensor and
that all title and ownership rights in Software Development Kit and
related materials remain exclusively with Licensor.</P>
<P>
Licensor reserves all rights with respect to Software Development Kit
under all applicable laws for the protection of proprietary
information, including, but not limited to, trade secrets,
copyrights, trademarks, and patents.</P>
<P>
Except as otherwise provided in this Agreement, Licensee shall not
cause or permit unauthorized copying, reproduction, or disclosure of
any portion of the Software Development Kit or supporting
documentation, or the delivery or distribution of any part thereof to
any third person or entity, for any purpose whatsoever, without the
prior written permission of Licensor. This restriction shall continue
to bind Licensee and its agents and representatives beyond the
termination of this Agreement.</P>
<P>
Licensee shall include the following copyright notice with each

Application Program incorporating the Redistributable Software:
"The Sentry Spelling-Checker Engine Copyright © 1994-2003
Wintertree Software Inc." This copyright notice may be placed
with other copyright notices, including the Licensee's own copyright
notice, or in any reasonably visible location in the application's
packaging, software, or documentation.</P>
<H2>

VIII. Indemnification</H2>
<P ALIGN=LEFT>

Licensee shall indemnify and defend against any and all claims,
including claims by third parties or employees of Licensee, which
arise directly or indirectly out of Licensee's use or operation of
the Software Development Kit or Redistributable Software.</P>
<P ALIGN=LEFT>

Licensor shall indemnify and hold Licensee harmless from loss,
damage, or liability for direct infringement of any United States,
Canadian, or European Union member state patent or copyright with
respect to the Redistributable Software, provided that the
Redistributable Software has not been modified and provided the
Licensor is promptly notified by the Licensee in writing of any
infringement and is permitted to defend, compromise or settle such
suit or claim, and provided the Licensee gives to the Licensor such
available information, assistance and authority as the Licensor deems
necessary to the defense of such suit or claim. Should the use of the
Redistributable Software be enjoined, or in the event that the
Licensor desires to minimize its liabilities hereunder, the Licensor
shall have the right, at its sole option and expense to:</P>
<UL>
<LI>
<P ALIGN=LEFT>

Procure for the Licensee the right to continue the use of the
Redistributable Software; or,</P>
<LI>
<P ALIGN=LEFT>

Replace the Redistributable Software with a non-infringing product; or,</P>
<LI>
<P ALIGN=LEFT>

Modify the Redistributable Software so that it becomes
non-infringing; or,</P>
<LI>
<P ALIGN=LEFT>

Refund to the Licensee the purchase price paid, if any, by the
Licensee for the Software Development Kit.</P>
</UL>
<P ALIGN=CENTER>

DISCLAIMER OF WARRANTY</P>
<P>

THIS SOFTWARE DEVELOPMENT KIT IS SOLD "AS IS" AND WITHOUT

WARRANTIES AS TO PERFORMANCE OR MERCHANTABILITY.</P>
<P>
THIS SOFTWARE DEVELOPMENT KIT IS SOLD WITHOUT ANY EXPRESS OR IMPLIED
WARRANTIES WHATSOEVER. BECAUSE OF THE DIVERSITY OF CONDITIONS AND
HARDWARE UNDER WHICH THIS SOFTWARE DEVELOPMENT KIT MAY BE USED, NO
WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS OFFERED. THE USER IS
ADVISED TO TEST THE SOFTWARE DEVELOPMENT KIT THOROUGHLY BEFORE
RELYING ON IT. THE USER MUST ASSUME THE ENTIRE RISK OF USING THE
SOFTWARE DEVELOPMENT KIT. ANY LIABILITY OF SELLER OR MANUFACTURER
WILL BE LIMITED EXCLUSIVELY TO PRODUCT REPLACEMENT OR REFUND OF THE
PURCHASE PRICE.</P>
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  <meta name="author" content="i-net /// software" />
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color:#ccccff;background-image:url(lib/styles/../images/info.png);border-color:#bbbbee;}div.success{background-color:#ccffcc;background-image:url(lib/styles/../images/success.png);border-color:#bbeebb;}div.notify{background-color:#ffffcc;background-image:url(lib/styles/../images/notify.png);border-color:#eeeebb;}.JSpopup,#link__wiz{position:absolute;background-color:#ffffff;color:#000000;z-index:20;overflow:hidden;}#link__wiz .ui-dialog-content{padding-left:0;padding-right:0;}#media__popup_content button.button{border:1px outset;}#media__popup_content button.selected{border-style:inset;}.a11y{position:absolute !important;left:-99999em !important;top:auto !important;width:1px !important;height:1px !important;overflow:hidden !important;}[dir=rtl] .a11y{left:auto !important;right:-99999em !important;}.code .co0{color:#666666;font-style:italic;}.code .co4{color:#cc0000;font-style:italic;}.code .es5{color:#006699;font-weight:bold;}.code .es6{color:#009933;font-weight:bold;}.code .kw2{color:#000000;font-weight:bold;}.code .kw5{color:#008000;}.code .kw6{color:#ff0088;font-weight:bold;}.code .me0{color:#004000;}.code .nu0{color:#cc66cc;}.code .re0{color:#0000ff;}.code .re3{color:#ff3333;font-weight:bold;}.code .re4{color:#009999;}.code .re5{color:#660033;}.code .sc-2{color:#404040;}.code .sy3{color:#000040;}.code .br0,.code .sy0{color:#66cc66;}.code .co1,.code .coMULTI,.code .sc-1{color:#808080;font-style:italic;}.code .co2,.code .sy1{color:#339933;}.code .co3,.code .sy4{color:#008080;}.code .es0,.code .es1,.code .esHARD{color:#000099;font-weight:bold;}.code .es2,.code .es3,.code .es4{color:#660099;font-weight:bold;}.code .kw1,.code .kw8{color:#b1b100;}.code .kw10,.code .kw11,.code .kw12,.code .kw9{color:#003399;font-weight:bold;}.code .kw13,.code .kw14,.code .kw15,.code .kw16,.code .me1,.code .me2{color:#006600;}.code .kw3,.code .kw7,.code .sy2{color:#000066;}.code .kw4,.code .re2{color:#993333;}.code .re1,.code .st0,.code .st_h{color:#ff0000;}.ui-helper-hidden{display:none;}.ui-helper-hidden-accessible{border:0;clip:rect(0 0 0 0);height:1px;margin:-1px;overflow:hidden;padding:0;position:absolute;width:1px;}.ui-helper-reset{margin:0;padding:0;border:0;outline:0;line-height:1.3;text-decoration:none;font-size:100%;list-style:none;}.ui-helper-clearfix:before,.ui-helper-clearfix:after{content:"";display:table;border-collapse:collapse;}.ui-helper-clearfix:after{clear:both;}.ui-helper-clearfix{min-height:0;}.ui-helper-zfix{width:100%;height:100%;top:0;left:0;position:absolute;opacity:0;filter:Alpha(Opacity=0);}.ui-front{z-index:100;}.ui-state-disabled{cursor:default !important;}.ui-icon{display:block;text-indent:-99999px;overflow:hidden;background-repeat:no-repeat;}.ui-widget-overlay{position:fixed;top:0;left:0;width:100%;height:100%;}.ui-accordion .ui-accordion-header{display:block;cursor:pointer;position:relative;margin:2px 0 0;padding:.5em .5em .5em .7em;min-height:0;font-size:100%;}.ui-accordion .ui-accordion-icons{padding-left:2.2em;}.ui-accordion .ui-accordion-icons .ui-accordion-icons{padding-left:2.2em;}.ui-accordion .ui-accordion-header .ui-accordion-header-icon{position:absolute;left:.5em;top:50%;margin-top:-8px;}.ui-accordion .ui-accordion-content{padding:1em 2.2em;border-top:0;overflow:auto;}.ui-autocomplete{position:absolute;top:0;left:0;cursor:default;}.ui-button{display:inline-block;position:relative;padding:0;line-height:normal;margin-right:.1em;cursor:pointer;vertical-align:middle;text-align:center;overflow:visible;}.ui-button,.ui-button:link,.ui-button:visited,.ui-button:hover,.ui-button:active{text-decoration:none;}.ui-button-icon-only{width:2.2em;}button.ui-button-icon-only{width:2.4em;}.ui-button-icons-only{width:3.4em;}button.ui-button-icons-only{width:3.7em;}.ui-button .ui-button-text{display:block;line-height:normal;}.ui-button-text-only .ui-button-text{padding:.4em 1em;}.ui-button-icon-only .ui-button-text,.ui-button-icons-only .ui-button-text{padding:.4em;text-indent:-9999999px;}.ui-button-text-icon-primary .ui-button-text,.ui-button-text-icons .ui-button-text{padding:.4em 1em .4em 2.1em;}.ui-button-text-icon-secondary .ui-button-text,.ui-button-text-icons .ui-button-text{padding:.4em 2.1em .4em 1em;}.ui-button-text-icons .ui-button-text{padding-left:2.1em;padding-right:2.1em;}input.ui-button{padding:.4em 1em;}.ui-button-icon-only .ui-icon,.ui-button-text-icon-primary .ui-icon,.ui-button-text-icon-secondary .ui-icon,.ui-button-text-icons .ui-icon,.ui-button-icons-only .ui-icon{position:absolute;top:50%;margin-top:-8px;}.ui-button-icon-only .ui-icon{left:50%;margin-left:-8px;}.ui-button-text-icon-primary .ui-button-icon-primary,.ui-button-text-icons .ui-button-icon-primary,.ui-button-icons-only .ui-button-icon-primary{left:.5em;}.ui-button-text-icon-secondary .ui-button-icon-secondary,.ui-button-text-icons

.ui-button-icon-secondary,.ui-button-icons-only .ui-button-icon-secondary{right:.5em;}.ui-buttonset{margin-right:7px;}.ui-buttonset .ui-button{margin-left:0;margin-right:-0.3em;}input.ui-button::-moz-focus-inner,button.ui-button::-moz-focus-inner{border:0;padding:0;}.ui-datepicker{width:17em;padding:.2em .2em 0;display:none;}.ui-datepicker .ui-datepicker-header{position:relative;padding:.2em 0;}.ui-datepicker .ui-datepicker-prev,.ui-datepicker .ui-datepicker-next{position:absolute;top:2px;width:1.8em;height:1.8em;}.ui-datepicker .ui-datepicker-prev-hover,.ui-datepicker .ui-datepicker-next-hover{top:1px;}.ui-datepicker .ui-datepicker-prev{left:2px;}.ui-datepicker .ui-datepicker-next{right:2px;}.ui-datepicker .ui-datepicker-prev-hover{left:1px;}.ui-datepicker .ui-datepicker-next-hover{right:1px;}.ui-datepicker .ui-datepicker-prev span,.ui-datepicker .ui-datepicker-next span{display:block;position:absolute;left:50%;margin-left:-8px;top:50%;margin-top:-8px;}.ui-datepicker .ui-datepicker-title{margin:0 2.3em;line-height:1.8em;text-align:center;}.ui-datepicker .ui-datepicker-title select{font-size:1em;margin:1px 0;}.ui-datepicker select.ui-datepicker-month,.ui-datepicker select.ui-datepicker-year{width:49%;}.ui-datepicker table{width:100%;font-size:.9em;border-collapse:collapse;margin:0 0 .4em;}.ui-datepicker th{padding:.7em .3em;text-align:center;font-weight:bold;border:0;}.ui-datepicker td{border:0;padding:1px;}.ui-datepicker td span,.ui-datepicker td a{display:block;padding:.2em;text-align:right;text-decoration:none;}.ui-datepicker .ui-datepicker-buttonpane{background-image:none;margin:.7em 0 0 0;padding:0 .2em;border-left:0;border-right:0;border-bottom:0;}.ui-datepicker .ui-datepicker-buttonpane button{float:right;margin:.5em .2em .4em;cursor:pointer;padding:.2em .6em .3em .6em;width:auto;overflow:visible;}.ui-datepicker .ui-datepicker-buttonpane button.ui-datepicker-current{float:left;}.ui-datepicker.ui-datepicker-multi{width:auto;}.ui-datepicker-multi .ui-datepicker-group{float:left;}.ui-datepicker-multi .ui-datepicker-group table{width:95%;margin:0 auto .4em;}.ui-datepicker-multi-2 .ui-datepicker-group{width:50%;}.ui-datepicker-multi-3 .ui-datepicker-group{width:33.3%;}.ui-datepicker-multi-4 .ui-datepicker-group{width:25%;}.ui-datepicker-multi .ui-datepicker-group-last .ui-datepicker-header,.ui-datepicker-multi .ui-datepicker-group-middle .ui-datepicker-header{border-left-width:0;}.ui-datepicker-multi .ui-datepicker-buttonpane{clear:left;}.ui-datepicker-row-break{clear:both;width:100%;font-size:0;}.ui-datepicker-rtl{direction:rtl;}.ui-datepicker-rtl .ui-datepicker-prev{right:2px;left:auto;}.ui-datepicker-rtl .ui-datepicker-next{left:2px;right:auto;}.ui-datepicker-rtl .ui-datepicker-prev:hover{right:1px;left:auto;}.ui-datepicker-rtl .ui-datepicker-next:hover{left:1px;right:auto;}.ui-datepicker-rtl .ui-datepicker-buttonpane{clear:right;}.ui-datepicker-rtl .ui-datepicker-buttonpane button{float:left;}.ui-datepicker-rtl .ui-datepicker-buttonpane button.ui-datepicker-current,.ui-datepicker-rtl .ui-datepicker-group{float:right;}.ui-datepicker-rtl .ui-datepicker-group-last .ui-datepicker-header,.ui-datepicker-rtl .ui-datepicker-group-middle .ui-datepicker-header{border-right-width:0;border-left-width:1px;}.ui-dialog{overflow:hidden;position:absolute;top:0;left:0;padding:.2em;outline:0;}.ui-dialog .ui-dialog-titlebar{padding:.4em 1em;position:relative;}.ui-dialog .ui-dialog-title{float:left;margin:.1em 0;white-space:nowrap;width:90%;overflow:hidden;text-overflow:ellipsis;}.ui-dialog .ui-dialog-titlebar-close{position:absolute;right:.3em;top:50%;width:20px;margin:-10px 0 0 0;padding:1px;height:20px;}.ui-dialog .ui-dialog-content{position:relative;border:0;padding:.5em 1em;background:none;overflow:auto;}.ui-dialog .ui-dialog-buttonpane{text-align:left;border-width:1px 0 0 0;background-image:none;margin-top:.5em;padding:.3em 1em .5em .4em;}.ui-dialog .ui-dialog-buttonpane .ui-dialog-buttonset{float:right;}.ui-dialog .ui-dialog-buttonpane button{margin:.5em .4em .5em 0;cursor:pointer;}.ui-dialog .ui-resizable-se{width:12px;height:12px;right:-5px;bottom:-5px;background-position:16px 16px;}.ui-draggable .ui-dialog-titlebar{cursor:move;}.ui-draggable-handle{-ms-touch-action:none;touch-action:none;}.ui-menu{list-style:none;padding:0;margin:0;display:block;outline:none;}.ui-menu .ui-menu{position:absolute;}.ui-menu .ui-menu-item{position:relative;margin:0;padding:3px 1em 3px .4em;cursor:pointer;min-height:0;list-style-image:url(data:image/gif;base64,R0lGODlhAQABAIAAAAAAAP///yH5BAEAAAAALAAAAAABAAEAAAIBRAA7);}.ui-menu .ui-menu-divider{margin:5px 0;height:0;font-size:0;line-height:0;border-width:1px 0 0 0;}.ui-menu .ui-state-focus,.ui-menu .ui-state-active{margin:-1px;}.ui-menu-icons{position:relative;}.ui-menu-icons .ui-menu-item{padding-left:2em;}.ui-menu .ui-icon{position:absolute;top:0;bottom:0;left:.2em;margin:auto 0;}.ui-menu .ui-menu-icon{left:auto;right:0;}.ui-progressbar{height:2em;text-align:left;overflow:hidden;}.ui-progressbar .ui-progressbar-value{margin:-1px;height:100%;}.ui-progressbar .ui-progressbar-

overlay{background:url(lib/scripts/jquery/jquery-ui-theme/images/animated-overlay.gif);height:100%;filter:alpha(opacity=25);opacity:0.25;}.ui-progressbar-indeterminate .ui-progressbar-value{background-image:none;}.ui-resizable{position:relative;}.ui-resizable-handle{position:absolute;font-size:.1px;display:block;-ms-touch-action:none;touch-action:none;}.ui-resizable-disabled .ui-resizable-handle,.ui-resizable-autohide .ui-resizable-handle{display:none;}.ui-resizable-n{cursor:n-resize;height:7px;width:100%;top:-5px;left:0;}.ui-resizable-s{cursor:s-resize;height:7px;width:100%;bottom:-5px;left:0;}.ui-resizable-e{cursor:e-resize;width:7px;right:-5px;top:0;height:100%;}.ui-resizable-w{cursor:w-resize;width:7px;left:-5px;top:0;height:100%;}.ui-resizable-se{cursor:se-resize;width:12px;height:12px;right:1px;bottom:1px;}.ui-resizable-sw{cursor:sw-resize;width:9px;height:9px;left:-5px;bottom:-5px;}.ui-resizable-nw{cursor:nw-resize;width:9px;height:9px;left:-5px;top:-5px;}.ui-resizable-ne{cursor:ne-resize;width:9px;height:9px;right:-5px;top:-5px;}.ui-selectable{-ms-touch-action:none;touch-action:none;}.ui-selectable-helper{position:absolute;z-index:100;border:1px dotted black;}.ui-selectmenu-menu{padding:0;margin:0;position:absolute;top:0;left:0;display:none;}.ui-selectmenu-menu .ui-menu{overflow:auto;overflow-x:hidden;padding-bottom:1px;}.ui-selectmenu-menu .ui-menu .ui-selectmenu-optgroup{font-size:1em;font-weight:bold;line-height:1.5;padding:2px .4em;margin:.5em 0 0 0;height:auto;border:0;}.ui-selectmenu-open{display:block;}.ui-selectmenu-button{display:inline-block;overflow:hidden;position:relative;text-decoration:none;cursor:pointer;}.ui-selectmenu-button span.ui-icon{right:.5em;left:auto;margin-top:-8px;position:absolute;top:50%;}.ui-selectmenu-button span.ui-selectmenu-text{text-align:left;padding:.4em 2.1em .4em 1em;display:block;line-height:1.4;overflow:hidden;text-overflow:ellipsis;white-space:nowrap;}.ui-slider{position:relative;text-align:left;}.ui-slider .ui-slider-handle{position:absolute;z-index:2;width:1.2em;height:1.2em;cursor:default;-ms-touch-action:none;touch-action:none;}.ui-slider .ui-slider-range{position:absolute;z-index:1;font-size:.7em;display:block;border:0;background-position:0 0;}.ui-slider.ui-state-disabled .ui-slider-handle,.ui-slider.ui-state-disabled .ui-slider-range{filter:inherit;}.ui-slider-horizontal{height:.8em;}.ui-slider-horizontal .ui-slider-handle{top:-0.3em;margin-left:-0.6em;}.ui-slider-horizontal .ui-slider-range{top:0;height:100%;}.ui-slider-horizontal .ui-slider-range-min{left:0;}.ui-slider-horizontal .ui-slider-range-max{right:0;}.ui-slider-vertical{width:.8em;height:100px;}.ui-slider-vertical .ui-slider-handle{left:-0.3em;margin-left:0;margin-bottom:-0.6em;}.ui-slider-vertical .ui-slider-range{left:0;width:100%;}.ui-slider-vertical .ui-slider-range-min{bottom:0;}.ui-slider-vertical .ui-slider-range-max{top:0;}.ui-sortable-handle{-ms-touch-action:none;touch-action:none;}.ui-spinner{position:relative;display:inline-block;overflow:hidden;padding:0;vertical-align:middle;}.ui-spinner-input{border:none;background:none;color:inherit;padding:0;margin:.2em 0;vertical-align:middle;margin-left:.4em;margin-right:22px;}.ui-spinner-button{width:16px;height:50%;font-size:.5em;padding:0;margin:0;text-align:center;position:absolute;cursor:default;display:block;overflow:hidden;right:0;}.ui-spinner a.ui-spinner-button{border-top:none;border-bottom:none;border-right:none;}.ui-spinner .ui-icon{position:absolute;margin-top:-8px;top:50%;left:0;}.ui-spinner-up{top:0;}.ui-spinner-down{bottom:0;}.ui-spinner .ui-icon-triangle-1-s{background-position:-65px -16px;}.ui-tabs{position:relative;padding:.2em;}.ui-tabs .ui-tabs-nav{margin:0;padding:.2em .2em 0;}.ui-tabs .ui-tabs-nav li{list-style:none;float:left;position:relative;top:0;margin:1px .2em 0 0;border-bottom-width:0;padding:0;white-space:nowrap;}.ui-tabs .ui-tabs-nav .ui-tabs-anchor{float:left;padding:.5em 1em;text-decoration:none;}.ui-tabs .ui-tabs-nav li.ui-tabs-active{margin-bottom:-1px;padding-bottom:1px;}.ui-tabs .ui-tabs-nav li.ui-tabs-active .ui-tabs-anchor,.ui-tabs .ui-tabs-nav li.ui-state-disabled .ui-tabs-anchor,.ui-tabs .ui-tabs-nav li.ui-tabs-loading .ui-tabs-anchor{cursor:text;}.ui-tabs-collapsible .ui-tabs-nav li.ui-tabs-active .ui-tabs-anchor{cursor:pointer;}.ui-tabs .ui-tabs-panel{display:block;border-width:0;padding:1em 1.4em;background:none;}.ui-tooltip{padding:8px;position:absolute;z-index:9999;max-width:300px;-webkit-box-shadow:0 0 5px #aaaaaa;box-shadow:0 0 5px #aaaaaa;}body .ui-tooltip{border-width:2px;}.ui-widget{font-size:1.1em;}.ui-widget .ui-widget{font-size:1em;}.ui-widget input,.ui-widget select,.ui-widget textarea,.ui-widget button{font-size:1em;}.ui-widget-content{border:1px solid #aaaaaa;background:#fff url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_flat_75_ffffff_40x100.png) 50% 50% repeat-x;color:#222222;}.ui-widget-content a{color:#222222;}.ui-widget-

header{border:1px solid #aaaaaa;background:#ccc url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_highlight-soft_75_cccccc_1x100.png) 50% 50% repeat-x;color:#222222;font-weight:bold;}.ui-widget-header a{color:#222222;}.ui-state-default,.ui-widget-content .ui-state-default,.ui-widget-header .ui-state-default{border:1px solid #d3d3d3;background:#e6e6e6 url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_glass_75_e6e6e6_1x400.png) 50% 50% repeat-x;font-weight:normal;color:#555555;}.ui-state-default a,.ui-state-default a:link,.ui-state-default a:visited{color:#555555;text-decoration:none;}.ui-state-hover,.ui-widget-content .ui-state-hover,.ui-widget-header .ui-state-hover,.ui-state-focus,.ui-widget-content .ui-state-focus,.ui-widget-header .ui-state-focus{border:1px solid #999999;background:#dadada url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_glass_75_dadada_1x400.png) 50% 50% repeat-x;font-weight:normal;color:#212121;}.ui-state-hover a,.ui-state-hover a:hover,.ui-state-hover a:link,.ui-state-hover a:visited,.ui-state-focus a,.ui-state-focus a:hover,.ui-state-focus a:link,.ui-state-focus a:visited{color:#212121;text-decoration:none;}.ui-state-active,.ui-widget-content .ui-state-active,.ui-widget-header .ui-state-active{border:1px solid #aaaaaa;background:#fff url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_glass_65_ffffff_1x400.png) 50% 50% repeat-x;font-weight:normal;color:#212121;}.ui-state-active a,.ui-state-active a:link,.ui-state-active a:visited{color:#212121;text-decoration:none;}.ui-state-highlight,.ui-widget-content .ui-state-highlight,.ui-widget-header .ui-state-highlight{border:1px solid #fcefa1;background:#fbf9ee url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_glass_55_fbf9ee_1x400.png) 50% 50% repeat-x;color:#363636;}.ui-state-highlight a,.ui-widget-content .ui-state-highlight a,.ui-widget-header .ui-state-highlight a{color:#363636;}.ui-state-error,.ui-widget-content .ui-state-error,.ui-widget-header .ui-state-error{border:1px solid #cd0a0a;background:#fef1ec url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_glass_95_fef1ec_1x400.png) 50% 50% repeat-x;color:#cd0a0a;}.ui-state-error a,.ui-widget-content .ui-state-error a,.ui-widget-header .ui-state-error a{color:#cd0a0a;}.ui-state-error-text,.ui-widget-content .ui-state-error-text,.ui-widget-header .ui-state-error-text{color:#cd0a0a;}.ui-priority-primary,.ui-widget-content .ui-priority-primary,.ui-widget-header .ui-priority-primary{font-weight:bold;}.ui-priority-secondary,.ui-widget-content .ui-priority-secondary,.ui-widget-header .ui-priority-secondary{opacity:.7;filter:Alpha(Opacity=70);font-weight:normal;}.ui-state-disabled,.ui-widget-content .ui-state-disabled,.ui-widget-header .ui-state-disabled{opacity:.35;filter:Alpha(Opacity=35);background-image:none;}.ui-state-disabled .ui-icon{filter:Alpha(Opacity=35);}.ui-icon{width:16px;height:16px;}.ui-icon,.ui-widget-content .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_222222_256x240.png);}.ui-widget-header .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_222222_256x240.png);}.ui-state-default .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_888888_256x240.png);}.ui-state-hover .ui-icon,.ui-state-focus .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_454545_256x240.png);}.ui-state-active .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_454545_256x240.png);}.ui-state-highlight .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_2e83ff_256x240.png);}.ui-state-error .ui-icon,.ui-state-error-text .ui-icon{background-image:url(lib/scripts/jquery/jquery-ui-theme/images/ui-icons_cd0a0a_256x240.png);}.ui-icon-blank{background-position:16px 16px;}.ui-icon-carat-1-n{background-position:0 0;}.ui-icon-carat-1-ne{background-position:-16px 0;}.ui-icon-carat-1-e{background-position:-32px 0;}.ui-icon-carat-1-se{background-position:-48px 0;}.ui-icon-carat-1-s{background-position:-64px 0;}.ui-icon-carat-1-sw{background-position:-80px 0;}.ui-icon-carat-1-w{background-position:-96px 0;}.ui-icon-carat-1-nw{background-position:-112px 0;}.ui-icon-carat-2-n-s{background-position:-128px 0;}.ui-icon-carat-2-e-w{background-position:-144px 0;}.ui-icon-triangle-1-n{background-position:0 -16px;}.ui-icon-triangle-1-ne{background-position:-16px -16px;}.ui-icon-triangle-1-e{background-position:-32px -16px;}.ui-icon-triangle-1-se{background-position:-48px -16px;}.ui-icon-triangle-1-s{background-position:-64px -16px;}.ui-icon-triangle-1-sw{background-position:-80px -16px;}.ui-icon-triangle-1-w{background-position:-96px -16px;}.ui-icon-triangle-1-nw{background-position:-112px -16px;}.ui-icon-triangle-2-n-s{background-position:-128px -16px;}.ui-icon-triangle-2-e-w{background-position:-144px -16px;}.ui-icon-arrow-1-n{background-position:0 -32px;}.ui-icon-arrow-1-ne{background-position:-16px -32px;}.ui-icon-arrow-1-e{background-position:-32px -32px;}.ui-icon-arrow-1-se{background-position:-48px -32px;}.ui-icon-arrow-1-s{background-position:-64px -32px;}.ui-icon-

arrow-1-sw{background-position:-80px -32px;}.ui-icon-arrow-1-w{background-position:-96px -32px;}.ui-icon-arrow-1-nw{background-position:-112px -32px;}.ui-icon-arrow-2-n-s{background-position:-128px -32px;}.ui-icon-arrow-2-ne-sw{background-position:-144px -32px;}.ui-icon-arrow-2-e-w{background-position:-160px -32px;}.ui-icon-arrow-2-se-nw{background-position:-176px -32px;}.ui-icon-arrowstop-1-n{background-position:-192px -32px;}.ui-icon-arrowstop-1-e{background-position:-208px -32px;}.ui-icon-arrowstop-1-s{background-position:-224px -32px;}.ui-icon-arrowstop-1-w{background-position:-240px -32px;}.ui-icon-arrowthick-1-n{background-position:0 -48px;}.ui-icon-arrowthick-1-ne{background-position:-16px -48px;}.ui-icon-arrowthick-1-e{background-position:-32px -48px;}.ui-icon-arrowthick-1-se{background-position:-48px -48px;}.ui-icon-arrowthick-1-s{background-position:-64px -48px;}.ui-icon-arrowthick-1-sw{background-position:-80px -48px;}.ui-icon-arrowthick-1-w{background-position:-96px -48px;}.ui-icon-arrowthick-1-nw{background-position:-112px -48px;}.ui-icon-arrowthick-2-n-s{background-position:-128px -48px;}.ui-icon-arrowthick-2-ne-sw{background-position:-144px -48px;}.ui-icon-arrowthick-2-e-w{background-position:-160px -48px;}.ui-icon-arrowthick-2-se-nw{background-position:-176px -48px;}.ui-icon-arrowthickstop-1-n{background-position:-192px -48px;}.ui-icon-arrowthickstop-1-e{background-position:-208px -48px;}.ui-icon-arrowthickstop-1-s{background-position:-224px -48px;}.ui-icon-arrowthickstop-1-w{background-position:-240px -48px;}.ui-icon-arrowreturnthick-1-w{background-position:0 -64px;}.ui-icon-arrowreturnthick-1-n{background-position:-16px -64px;}.ui-icon-arrowreturnthick-1-e{background-position:-32px -64px;}.ui-icon-arrowreturnthick-1-s{background-position:-48px -64px;}.ui-icon-arrowreturn-1-w{background-position:-64px -64px;}.ui-icon-arrowreturn-1-n{background-position:-80px -64px;}.ui-icon-arrowreturn-1-e{background-position:-96px -64px;}.ui-icon-arrowreturn-1-s{background-position:-112px -64px;}.ui-icon-arrowrefresh-1-w{background-position:-128px -64px;}.ui-icon-arrowrefresh-1-n{background-position:-144px -64px;}.ui-icon-arrowrefresh-1-e{background-position:-160px -64px;}.ui-icon-arrowrefresh-1-s{background-position:-176px -64px;}.ui-icon-arrow-4{background-position:0 -80px;}.ui-icon-arrow-4-diag{background-position:-16px -80px;}.ui-icon-extlink{background-position:-32px -80px;}.ui-icon-newwin{background-position:-48px -80px;}.ui-icon-refresh{background-position:-64px -80px;}.ui-icon-shuffle{background-position:-80px -80px;}.ui-icon-transfer-e-w{background-position:-96px -80px;}.ui-icon-transferthick-e-w{background-position:-112px -80px;}.ui-icon-folder-collapsed{background-position:0 -96px;}.ui-icon-folder-open{background-position:-16px -96px;}.ui-icon-document{background-position:-32px -96px;}.ui-icon-document-b{background-position:-48px -96px;}.ui-icon-note{background-position:-64px -96px;}.ui-icon-mail-closed{background-position:-80px -96px;}.ui-icon-mail-open{background-position:-96px -96px;}.ui-icon-suitcase{background-position:-112px -96px;}.ui-icon-comment{background-position:-128px -96px;}.ui-icon-person{background-position:-144px -96px;}.ui-icon-print{background-position:-160px -96px;}.ui-icon-trash{background-position:-176px -96px;}.ui-icon-locked{background-position:-192px -96px;}.ui-icon-unlocked{background-position:-208px -96px;}.ui-icon-bookmark{background-position:-224px -96px;}.ui-icon-tag{background-position:-240px -96px;}.ui-icon-home{background-position:0 -112px;}.ui-icon-flag{background-position:-16px -112px;}.ui-icon-calendar{background-position:-32px -112px;}.ui-icon-cart{background-position:-48px -112px;}.ui-icon-pencil{background-position:-64px -112px;}.ui-icon-clock{background-position:-80px -112px;}.ui-icon-disk{background-position:-96px -112px;}.ui-icon-calculator{background-position:-112px -112px;}.ui-icon-zoomin{background-position:-128px -112px;}.ui-icon-zoomout{background-position:-144px -112px;}.ui-icon-search{background-position:-160px -112px;}.ui-icon-wrench{background-position:-176px -112px;}.ui-icon-gear{background-position:-192px -112px;}.ui-icon-heart{background-position:-208px -112px;}.ui-icon-star{background-position:-224px -112px;}.ui-icon-link{background-position:-240px -112px;}.ui-icon-cancel{background-position:0 -128px;}.ui-icon-plus{background-position:-16px -128px;}.ui-icon-plusthick{background-position:-32px -128px;}.ui-icon-minus{background-position:-48px -128px;}.ui-icon-minusthick{background-position:-64px -128px;}.ui-icon-close{background-position:-80px -128px;}.ui-icon-closethick{background-position:-96px -128px;}.ui-icon-key{background-position:-112px -128px;}.ui-icon-lightbulb{background-position:-128px -128px;}.ui-icon-scissors{background-position:-144px -128px;}.ui-icon-clipboard{background-position:-160px -128px;}.ui-icon-copy{background-position:-176px -128px;}.ui-icon-contact{background-position:-192px -128px;}.ui-icon-image{background-position:-208px -128px;}.ui-icon-

video{background-position:-224px -128px;}.ui-icon-script{background-position:-240px -128px;}.ui-icon-alert{background-position:0 -144px;}.ui-icon-info{background-position:-16px -144px;}.ui-icon-notice{background-position:-32px -144px;}.ui-icon-help{background-position:-48px -144px;}.ui-icon-check{background-position:-64px -144px;}.ui-icon-bullet{background-position:-80px -144px;}.ui-icon-radio-on{background-position:-96px -144px;}.ui-icon-radio-off{background-position:-112px -144px;}.ui-icon-pin-w{background-position:-128px -144px;}.ui-icon-pin-s{background-position:-144px -144px;}.ui-icon-play{background-position:0 -160px;}.ui-icon-pause{background-position:-16px -160px;}.ui-icon-seek-next{background-position:-32px -160px;}.ui-icon-seek-prev{background-position:-48px -160px;}.ui-icon-seek-end{background-position:-64px -160px;}.ui-icon-seek-start{background-position:-80px -160px;}.ui-icon-seek-first{background-position:-80px -160px;}.ui-icon-stop{background-position:-96px -160px;}.ui-icon-eject{background-position:-112px -160px;}.ui-icon-volume-off{background-position:-128px -160px;}.ui-icon-volume-on{background-position:-144px -160px;}.ui-icon-power{background-position:0 -176px;}.ui-icon-signal-diag{background-position:-16px -176px;}.ui-icon-signal{background-position:-32px -176px;}.ui-icon-battery-0{background-position:-48px -176px;}.ui-icon-battery-1{background-position:-64px -176px;}.ui-icon-battery-2{background-position:-80px -176px;}.ui-icon-battery-3{background-position:-96px -176px;}.ui-icon-circle-plus{background-position:0 -192px;}.ui-icon-circle-minus{background-position:-16px -192px;}.ui-icon-circle-close{background-position:-32px -192px;}.ui-icon-circle-triangle-e{background-position:-48px -192px;}.ui-icon-circle-triangle-s{background-position:-64px -192px;}.ui-icon-circle-triangle-w{background-position:-80px -192px;}.ui-icon-circle-triangle-n{background-position:-96px -192px;}.ui-icon-circle-arrow-e{background-position:-112px -192px;}.ui-icon-circle-arrow-s{background-position:-128px -192px;}.ui-icon-circle-arrow-w{background-position:-144px -192px;}.ui-icon-circle-arrow-n{background-position:-160px -192px;}.ui-icon-circle-zoomin{background-position:-176px -192px;}.ui-icon-circle-zoomout{background-position:-192px -192px;}.ui-icon-circle-check{background-position:-208px -192px;}.ui-icon-circlesmall-plus{background-position:0 -208px;}.ui-icon-circlesmall-minus{background-position:-16px -208px;}.ui-icon-circlesmall-close{background-position:-32px -208px;}.ui-icon-squaresmall-plus{background-position:-48px -208px;}.ui-icon-squaresmall-minus{background-position:-64px -208px;}.ui-icon-squaresmall-close{background-position:-80px -208px;}.ui-icon-grip-dotted-vertical{background-position:0 -224px;}.ui-icon-grip-dotted-horizontal{background-position:-16px -224px;}.ui-icon-grip-solid-vertical{background-position:-32px -224px;}.ui-icon-grip-solid-horizontal{background-position:-48px -224px;}.ui-icon-gripsmall-diagonal-se{background-position:-64px -224px;}.ui-icon-grip-diagonal-se{background-position:-80px -224px;}.ui-corner-all,.ui-corner-top,.ui-corner-left,.ui-corner-tl{border-top-left-radius:4px;}.ui-corner-all,.ui-corner-top,.ui-corner-right,.ui-corner-tr{border-top-right-radius:4px;}.ui-corner-all,.ui-corner-bottom,.ui-corner-left,.ui-corner-bl{border-bottom-left-radius:4px;}.ui-corner-all,.ui-corner-bottom,.ui-corner-right,.ui-corner-br{border-bottom-right-radius:4px;}.ui-widget-overlay{background:#aaa url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_flat_0_aaaaaa_40x100.png) 50% 50% repeat-x;opacity:.3;filter:Alpha(Opacity=30);}.ui-widget-shadow{margin:-8px 0 0 -8px;padding:8px;background:#aaa url(lib/scripts/jquery/jquery-ui-theme/images/ui-bg_flat_0_aaaaaa_40x100.png) 50% 50% repeat-x;opacity:.3;filter:Alpha(Opacity=30);border-radius:8px;}#siteexport__throbber{visibility:hidden;}#siteexport,#siteexport__manager{margin:1em auto;vertical-align:middle;width:80%;text-align:left;}#siteexport__manager{margin-top:0;padding-top:1em;}#siteexport fieldset{text-align:left;}#siteexport fieldset label input,#siteexport fieldset label select{float:right;text-align:left;width:50%;}#siteexport fieldset label input[type=checkbox]{width:auto;}#siteexport fieldset.hideOptions > *{display:none;}#siteexport fieldset legend,#siteexport fieldset.hideOptions .forceVisible{display:block !important;}#siteexport fieldset legend{cursor:pointer;}#siteexport fieldset legend:hover{color:#0041B7;text-decoration:underline;}#siteexport fieldset br{clear:both;}#siteexport fieldset p{margin-top:0;color:#a9a9a9;}#siteexport__errorlog{overflow:auto;max-height:200px;}#siteexport__errorlog p{color:#aa0000;margin:0;padding:0 5px;overflow:hidden;}#siteexport__errorlog p:nth-child(odd){background-color:#FFEDED;}#siteexport__errorlog p:nth-child(even){background-color:#FFD4D4;}#siteexport__cronList{margin:40px 0 20px;}#siteexport__customActions{margin:0;padding:0;}#siteexport__cronList li,#siteexport__customActions

li{list-style:none;border-bottom:1px solid
#cccccc;float:left;clear:both;width:100%;margin:0;padding:0;}#siteexport__customActions li input{margin:2px
1%;width:45%;}#siteexport__cronList li:last-child,#siteexport__customActions li:last-child{border-
bottom:none;}#siteexport__cronList li:nth-child(odd),#siteexport__customActions li:nth-child(odd){background-
color:#eeeeee;}#siteexport__cronList li:nth-child(even),#siteexport__customActions li:nth-child(even){background-
color:#f0f0f0;}#siteexport__cronList li button,siteexport__customActions li button{float:right;}div.sitetoc ul li
div.li > a{display:block;margin-bottom:5px !important;margin-top:15px !important;}#siteexport
.siteexport__throbber,#siteexport .siteexport__throbber img{display:block;margin-left:auto;margin-
right:auto;}#dokuwiki__pagetools ul li
a.siteexport_addpage::before{content:url(lib/plugins/siteexport/images/pagetools.png);}#dokuwiki__pagetools:hove
r ul li a.siteexport_addpage,#dokuwiki__pagetools ul li a.siteexport_addpage:focus,#dokuwiki__pagetools ul li
a.siteexport_addpage:active{background-
image:url(lib/plugins/siteexport/images/pagetools.png);}#dokuwiki__pagetools ul li
a.siteexport_addpage:hover,#dokuwiki__pagetools ul li a.siteexport_addpage:active,#dokuwiki__pagetools ul li
a.siteexport_addpage:focus{background-position:right -32px;}.dokuwiki div.breadcrumbs
div.plugin_translation{float:right;border:none;}.dokuwiki div.breadcrumbs div.plugin_translation ul,.dokuwiki
div.breadcrumbs div.plugin_translation li,.dokuwiki div.breadcrumbs div.plugin_translation
div{border:none;margin:0;}.dokuwiki div.breadcrumbs div.plugin_translation ul li a{margin:0;padding:2px
5px;background-color:#0041B7 !important;}.dokuwiki div.breadcrumbs div.plugin_translation ul li
a.wikilink2{background-color:#BA2904 !important;}.dokuwiki div.breadcrumbs div.plugin_translation ul li
a:hover{background-color:!important;}.dokuwiki div.breadcrumbs div.plugin_translation ul li a.cur,.dokuwiki
div.breadcrumbs div.plugin_translation ul li a.cur:hover{background-color:#666 !important;}div.box
.box_content,div.box,div.box p.box_title,div.box p.box_content,div.box p.box_caption{background-
color:transparent !important;}div.box.round .box_content{background-color:#fff
!important;}div.box,div.box_content{margin:0;padding:0;border-width:0 !important;line-height:1.5em
!important;}div.box div.box_content{padding:0;}div.box div.box:last-child div.box_content > *:last-
child,div.dokuwiki > div.box:last-child > div.xbox > div.box_content > *:last-child,div.level1 > div.box:last-child >
div.xbox > div.box_content > *:last-child,div.dokuwiki > div.box:first-child > div.xbox > div.box_content > *:last-
child,div.level1 > div.box:first-child > div.xbox > div.box_content > *:last-child{margin-bottom:0
!important;}div.box div.box_content p,div.box div.box_content ul,div.box div.box_content table,div.box
div.box_content ol,div.box.round,div.box div.box:last-child div.box_content > *:last-child *:last-child > img:last-
child{margin-top:0;margin-bottom:17px !important;}div.box div.box_content > h3{margin-top:0;}div.box.round
div.box_content{border-width:1px !important;border-style:solid;padding-top:10px;}div.box.round div.box_content
> *:last-child{margin-bottom:0 ! important;padding-bottom:10px ! important;}div.box.round div.box_content >
*:first-child{padding-top:10px ! important;}div.box div.box_content > *:first-child fieldset{margin-top:0
!important;}div.box.round div.box_content > *{margin-left:10px;margin-right:10px;}div.box.round
div.box_content ul li{margin-left:20px;}div.box.center h2.box_title{text-align:center !important;}div.box.round
div.box_content ol li{margin-left:20px;}div.box.round
.box_title{padding:3px;margin:0;}div.box.round.imgnoborder div.box_content
img.mediaright{margin:0;padding:0;}div.box.round.teaser div.box_content img.mediaright{margin:0 10px;}div.box
div.box_content table{margin-bottom:20px;}div.box p.box_title{font-weight:bold;padding:0;margin-bottom:10px
!important;background-position:left bottom;font-family:Verdana,Arial;font-size:9pt;}div.box h2.box_title{margin-
top:0;margin-bottom:0;padding-bottom:10px;}div.box h2.box_title img.media{margin:0;}div.box
h2.box_title:empty{display:none;}div.box h2.box_title a img{margin-left:0;margin-
right:0;}div.no_break{clear:none;}img.right{float:right;margin-left:10px;margin-
top:10px;}img.left{float:left;margin-right:10px;margin-top:10px;}div.dokuwiki .box_title img.media{margin-
left:0;margin-right:0;margin-top:0;}div.column_left table.inline,div.column_center table.inline,div.column_right
table.inline{width:99%;}.right-align{text-align:right;}div.column_left{padding:0;padding-

right:12px;margin:0;border-right:1px solid #ccc !important;}div.column_center{height:100%;padding:0 12px;margin:0;margin-left:-1px;border-right:1px solid #ccc !important;border-left:1px solid #ccc !important;}div.column_right,div.box.right_large_column,div.box.right_small_column{padding:0;padding-left:12px;margin:0;margin-left:-1px;border-left:1px solid #ccc !important;}div.column_center.no-border,div.column_left.no-border,div.column_right.no-border{border:none !important;}div.column_left,div.column_center,div.column_right{width:31%;float:left;}div.float_right{float:right;} hr{clear:both;}div.caption{border:none;text-align:center;font-size:90%;padding-top:10px;}div.figure{margin:2em auto;page-break-inside:avoid;}span.captionno{font-weight:bold;}div.plugin_translation a{background-color:!important;}div.plugin_translation a.cur{background-color:#0041B7 !important;}}div.clearer{clear:both;font-size:0;line-height:0;height:0;overflow:hidden;}.group{display:inline-block;}.group{display:block;}.group:before,.group:after{content:"";display:table;}.group:after{clear:both;}div.no{display:inline;margin:0;padding:0;}.hidden{display:none;}.medialeft{float:left;}.mediaright{float:right;}.mediacenter{display:block;margin-left:auto;margin-right:auto;}.leftalign{text-align:left;}.centeralign{text-align:center;}.rightalign{text-align:right;}em.u{font-style:normal;text-decoration:underline;}em em.u{font-style:italic;}body{padding:0;margin:0;}div.centerWrapper{margin:0;padding:0 20px;margin-right:20px;}#dokuwiki__top{margin:0;}#dw__search{display:none;}#inetContent div.dokuwiki{padding:20px 0;}div.dokuwiki p,div.dokuwiki table{margin-top:17px;margin-bottom:0;}div.dokuwiki ul,div.dokuwiki ol{margin-top:5px;margin-bottom:0;}div.dokuwiki ul ul,div.dokuwiki ol ol{margin-top:0;padding-top:0;}div.dokuwiki ul li.search-goog{margin-top:20px;list-style:none;margin-left:-13px;}div.dokuwiki p img.media,div.dokuwiki ul img.media,div.dokuwiki ol img.media{margin:0;margin-bottom:-3px;}#inetFooter p,#inetFooter ul,#inetFooter #breadcrumbs{padding:0 20px 20px;margin:0;}#inetFooter_navigation{text-align:right;margin:0;}#inetFooter_navigation li,#inetFooter-notes li{display:inline;list-style:none;padding:0;white-space:nowrap;}#inetFooterArea{clear:both;padding:0;margin:0;}#inetFooter_navigation li *,#inetFooter-notes li *{display:inline;padding:0;white-space:nowrap;}#inetFooter_navigation li a,#inetFooter-notes li a{padding:0 5px;}#inetFooter_navigation li span.nextItem{padding:0 0 0 5px;}#manageBar{float:right;margin-bottom:50px;}#manageBar *{display:inline;}#inetFooter-notes ul{margin:0;padding:0;}div.column_center{height:100%;padding:0 1.5%;margin:0 1.5%;border-left:1px solid #cccccc;border-right:1px solid #cccccc;}div.column_left,div.column_center,div.column_right{width:31%;float:left;position:relative;}div.clearfloat{clear:both;}hr{background:#cccccc;color:#cccccc;height:1px;border:none;margin-top:17px;margin-bottom:20px;position:relative;}div.clearer + hr{margin-bottom:15px;}#inetFooter hr{margin-bottom:0;}.clearer{clear:both;}div.clearer{width:0;}div.dokuwiki div{overflow:visible;}div.dokuwiki p:first-child{margin-top:0 !important;}#breadcrumbs{float:left;}#breadcrumbs a,#breadcrumbs img{padding:0 5px;vertical-align:middle;}#index__tree ul *{list-style:none !important;}div.help_breadcrumbs{display:none;}div.caption{border:none;text-align:center;font-size:80%;}div.figure{margin:2em auto;page-break-inside:avoid;}body{font:12px/17px Arial,Calibri,Verdana,Helvetica,sans-serif;background:#ffffff;text-align:left;}html{background:#ffffff;}img{border:none;}#inetContent{background:#ffffff;}#inetContentArea{background:#ffffff;}div.dokuwiki{font-size:12px;overflow:hidden;}strong{color:#000000;}#inetFooter,#inetFooterArea,#inetFooter p{font-size:11px;background:#ffffff;border:0;}#inetFooter_navigation li a,div#footer *{color:#000 !important;}#inetFooter-notes li *{color:#444B51 !important;}a{text-decoration:none;}a:hover{text-decoration:underline;}div.dokuwiki h2 a img.medialeft,div.dokuwiki h2 a img.mediaright{margin-top:0;margin-bottom:10px;}div.inlinetoc2{border:none !important;}div.inlinetoc2 ul{list-style-type:none !important;}a:link,a:visited{color:#0041B7;text-decoration:none;}a:hover,a:active{color:#0041B7;text-decoration:underline;}div.dokuwiki h1 a,div.dokuwiki h2 a,div.dokuwiki a.nolink{color:#000 !important;text-decoration:none !important;font-family:Verdana,Arial;z-index:5;}div.dokuwiki h3 a,div.dokuwiki h4 a{color:#222 !important;}div.dokuwiki h2,div.dokuwiki h3,div.dokuwiki h4,div.dokuwiki h5{z-index:5;margin-

top:25px;}div.dokuwiki h1 a,div.dokuwiki h1{font-size:18px;font-weight:bold;}div.dokuwiki h1{border-bottom:1px solid #cccccc;}div.dokuwiki h2 a,div.dokuwiki h2{font-size:16px;font-weight:bold;}div.dokuwiki h3 a,div.dokuwiki h3{font-size:14px;font-weight:bold;font-style:italic;text-decoration:none;}div.dokuwiki h3{margin-bottom:0;}a.urlextern,a.interwiki,a.windows,a.mail,a.media{padding-left:0;background:none !important;}div.dokuwiki a.urlextern:visited,div.dokuwiki a.windows:visited,div.dokuwiki a.interwiki:visited,div.dokuwiki a.wikilink1:visited{color:#006FB7;}div.dokuwiki a.urlextern:link,div.dokuwiki a.windows:link,div.dokuwiki a.interwiki:link,div.dokuwiki a.urlextern:hover,div.dokuwiki a.urlextern:active,div.dokuwiki a.windows:hover,div.dokuwiki a.windows:active,div.dokuwiki a.interwiki:hover,div.dokuwiki a.interwiki:active,div.dokuwiki a.wikilink1:active,div.dokuwiki a.wikilink1:hover{color:#0041B7;}a.wikilink1,div.dokuwiki h2 a.wikilink1{color:#0041B7;}a.wikilink2{color:#BA2904 !important;text-decoration:none !important;border-bottom:dashed 1px #BA2904 !important;}#dw__toc{margin:-13px 0 0 20px;padding:2px;float:right;max-width:50%;font-size:11px;clear:both;}div.tocheader{border:0 none;text-align:left;font-weight:bold;padding:3px;padding-left:0;margin-bottom:2px;}span.toc_open,span.toc_close{border:1px solid #ffffff;float:right;display:block;margin:3px 3px 0 0;}span.toc_open span,span.toc_close span{display:none;}span.toc_open{margin-top:3px;border-top:1px solid #000000;}span.toc_close{margin-top:0;border-bottom:1px solid #000000;}#toc__inside{border:1px solid #b0b0b0;border-top:0;border-left:0;background-color:#ffffff;text-align:left;padding:5px 0;}#dw__inlinetoc > h3{display:none;}#dw__inlinetoc > ul{border:none;}#toc__toggle{display:none !important;}div.dokuwiki ul.toc{list-style-type:none;list-style-image:none;line-height:1.3;padding:1px;padding-left:13px;margin:0;}ul.toc li{padding-left:5px;}ul.toc li.clear{background-image:none;padding-left:5px;}a.toc:link,a.toc:visited{color:#0041B7;}a.toc:hover,a.toc:active{color:#000000;}.li{color:#000000;font-weight:normal;}ol,ul{margin:0;margin-left:13px;padding:0;}div.dokuwiki ul li{list-style-image:url(lib/tpl/readme/images/bullet.gif);}div.dokuwiki ol li{list-style-image:none;margin-left:30px;color:#000000;font-weight:normal;}ol{list-style-type:decimal;}ol ol{list-style-type:upper-roman;}ol ol ol{list-style-type:lower-alpha;}ol ol ol ol{list-style-type:lower-greek;}li.open a.idx_dir{background:url(lib/images/minus.gif) no-repeat left center;padding-left:20px;}li.closed a.idx_dir{background:url(lib/images/plus.gif) no-repeat left center;padding-left:20px;}blockquote{border-left:2px solid #b0b0b0;padding-left:3px;}div.dokuwiki pre{font-size:12px;padding:5px;border:none;color:#000000;overflow:auto;}div.dokuwiki pre.pre{background-color:#EFEFEF;}div.dokuwiki pre.code{background-color:#EFEFEF;border:1px solid #d9d9d9;}div.dokuwiki code{font-size:12px;}div.dokuwiki pre.file{background-color:#F1F1F1;}table.inline{background-color:#ffffff;border-spacing:0;border-collapse:collapse;margin:1px;width:100%;}table.inline tr:nth-child(odd) th,table.inline tr:nth-child(odd) td{background-color:#f0f0f0;}table.inline th{white-space:nowrap;vertical-align:top;text-align:left;}table.inline td,table.inline th{border:1px solid #d9d9d9;border-left:none;border-right:none;padding:5px;}div.dokuwiki div.preview{background-color:#ffffff;margin:0;padding:0;border:1px dashed #d9d9d9;}div.dokuwiki div.breadcrumbs{background-color:#ffffff;color:#666666;font-size:12px;padding:0 0 0 4px;}div.dokuwiki span.user{color:#858585;font-size:11px;}div.dokuwiki li.minor{color:#666666;font-style:italic;}div.dokuwiki img.media{margin:3px;}div.dokuwiki img.medialeft{border:0;float:left;margin:0 15px 15px 0;}div.dokuwiki img.mediaright{border:0;float:right;margin:0 0 15px 15px;}div.dokuwiki img.mediacenter{border:0;display:block;margin:0 auto;}div.dokuwiki img.middle{vertical-align:middle;}div.dokuwiki acronym{cursor:help;border-bottom:1px dotted #cccccc;}div.dokuwiki div.footnotes{clear:both;padding-top:20px;}div.dokuwiki a.fn_top,div.dokuwiki a.fn_bot{color:#000 !important;}div.dokuwiki div.fn{border-top:1px solid #cccccc;font-size:11px;padding-left:20px;padding-top:10px;}div.dokuwiki a.fn_bot{font-weight:bold;}div.insitu-footnote{font-size:11px;line-height:1.2;border:1px solid #b0b0b0;background-color:#EFEFEF;text-align:left;padding:4px;max-width:40%;}* html .insitu-footnote pre.code,* html .insitu-footnote pre.file{padding-bottom:18px;}br#scroll__here{clear:both;}div.dokuwiki h3,div.dokuwiki div.level1,div.dokuwiki div.level2,div.dokuwiki div.level3{margin-left:20px;}div.dokuwiki

h4,div.dokuwiki h5,div.dokuwiki div.level4,div.dokuwiki div.level5{margin-left:30px;}.code .br0{color:#66cc66;}.code .co0{color:#808080;font-style:italic;}.code .co1{color:#808080;font-style:italic;}.code .co2{color:#808080;font-style:italic;}.code .co3{color:#808080;}.code .coMULTI{color:#808080;font-style:italic;}.code .es0{color:#000099;font-weight:bold;}.code .kw1{color:#b1b100;}.code .kw2{color:#000000;font-weight:bold;}.code .kw3{color:#000066;}.code .kw4{color:#993333;}.code .kw5{color:#0000ff;}.code .me1{color:#006600;}.code .me2{color:#006600;}.code .nu0{color:#cc66cc;}.code .re0{color:#0000ff;}.code .re1{color:#0000ff;}.code .re2{color:#0000ff;}.code .re3{color:#ff3333;font-weight:bold;}.code .re4{color:#009999;}.code .st0{color:#ff0000;}.code .sy0{color:#66cc66;}@media print{div.error,div.info,div.success,div.notify,.secedit,.a11y,.JSpopup,#link__wiz{display:none;}}</style>

 <meta http-equiv="imagetoolbar" content="no" />
</head>

<body>

  <div id="inetContentArea">
   <div class="centerWrapper" id="inetContent">
    <div class="dokuwiki">

<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>
<div class="level1">

<p>
Version: 8.06
Last Modified: 15. Apr 2015
</p>

</div>
<div class="level2">
<!-- INLINETOC START -->
<div id="dw__inlinetoc">
<h3>Table of Contents</h3>
<ul class="inlinetoc">
<li class="level1"><div class="li">1. Installation</div>
<ul class="inlinetoc">
<li class="level2"><div class="li">1.1 Using the Driver in a Java Application</div>
<li class="level2"><div class="li">1.2 Using the Driver in an Applet</div>

<li class="level1"><div class="li">2. Getting Started</div>
<ul class="inlinetoc">

```html
<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>
</ul>
</li>
<li class="level1"><div class="li"><span class="li"><a href="#scrolling-cursor-types" class="inlinetoc">8.
Scrolling Cursor Types</a></span></div></li>
<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>
<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></li>
<li class="level2"><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="level2"><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>
<li class="level1"><div class="li"><span class="li"><a href="#snapshot-transaction-isolation"
class="inlinetoc">11. Snapshot Transaction Isolation</a></span></div></li>
<li class="level1"><div class="li"><span class="li"><a href="#debugging" class="inlinetoc">12.
Debugging</a></span></div></li>
<li class="level1"><div class="li"><span class="li"><a href="#support" class="inlinetoc">13.
Support</a></span></div></li>
<li class="level1"><div class="li"><span class="li"><a href="#documentation" class="inlinetoc">14.
Documentation</a></span></div></li>
<li class="level1"><div class="li"><span class="li"><a href="#known-problems" class="inlinetoc">15. Known
problems</a></span></div></li>
<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>
```

<!-- INLINETOC END -->

</div>

<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>
<div class="level3">

<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>

</div>

<h3 id="using-the-driver-in-an-applet">1.2 Using the Driver in an Applet</h3>
<div class="level3">

<p>
Add the driver jar file to the archive attribute of the applet tag, e.g.:
</p>
<pre class="code html4strict"><<a target="_blank"
href="http://december.com/html/4/element/applet.html">APPLET <span

class="kw3">CODE="..." Codebase="..." ARCHIVE="Merlia.jar"
WIDTH="100%"
HEIGHT="100%">
...
</<a target="_blank"
href="http://december.com/html/4/element/applet.html">APPLET></pre>

<p>
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>
<div class="level3">
<div class="table "><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
4.0 (with Java 6.0) </td>
 </tr>
</table></div>

<p>
All drivers support the following SQL Server versions:
</p>


```
<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>

<p>
with all Service Packs (32 bit / 64 bit)
</p>

</div>

<h3 id="implemented-features">2.2 Implemented Features</h3>
<div class="level3">
<div class="table "><table class="inline">
 <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>
 <tr class="row6">
  <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>
 <tr class="row7">
  <td class="col0"> Pool Manager i-net PLEXA </td><td class="col1"> - </td><td class="col2"> - </td><td
class="col3"> Yes </td><td class="col4"> Yes </td>
 </tr>
 <tr class="row8">
  <td class="col0"> JDBCRowSet </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes
</td><td class="col4"> Yes </td>
 </tr>
 <tr class="row9">
  <td class="col0"> Distributed Transactions (XA) </td><td class="col1"> - </td><td class="col2"> - </td><td
class="col3"> Yes </td><td class="col4"> Yes </td>
 </tr>
 <tr class="row10">
  <td class="col0"> SSL </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> Yes </td><td
class="col4"> Yes </td>
 </tr>
 <tr class="row11">
  <td class="col0"> Savepoints on Transactions </td><td class="col1"> - </td><td class="col2"> - </td><td
class="col3"> - </td><td class="col4"> Yes </td>
 </tr>
 <tr class="row12">
  <td class="col0"> Multiple Open ResultSets per Statement </td><td class="col1"> - </td><td class="col2"> -
</td><td class="col3"> - </td><td class="col4"> Yes </td>
 </tr>
 <tr class="row13">
  <td class="col0"> ResultSet Holdability </td><td class="col1"> - </td><td class="col2"> - </td><td class="col3"> -
</td><td class="col4"> Yes </td>
 </tr>
</table></div>

<p>
A more complete list can be found at at:<br/>
<a href="http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features" class="urlextern" target="_blank"
title="http://www.inetsoftware.de/products/jdbc-driver/ms-sql/features"> http://www.inetsoftware.de/products/jdbc-
driver/ms-sql/features</a>
</p>

</div>

<h3 id="check-host-name-and-port-number-of-your-server">2.3. Check Host Name and Port Number of Your
Server</h3>
<div class="level3">
```

```html
<p>
```
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.
```html
</p>

<p>
```
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:
```html
</p>

</div>

<h4 id="for-microsoft-sql-server-65">For Microsoft SQL Server 6.5:</h4>
<div class="level4">

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

</div>

<h4 id="for-microsoft-sql-server-70">For Microsoft SQL Server 7.0:</h4>
<div class="level4">

<p>
```
Click -SQL Server Network Utility- in the Microsoft SQL Server 7.0 program group. On the general property sheet, click -Add- and select -TCP/IP- under Network libraries. Enter the port number and the proxy address (if nesessary) and click OK.
```html
</p>

<p>
```
The default port number for the Microsoft SQL Server is usually 1433. However servers can be configured to listen on any port number. To make sure that the RDBMS server is listening on the machine name and port number you specified use:
```html
</p>
<pre class="code bash">telnet <span class="sy0">&lt;</span><span class="kw2">hostname</span> or <span class="kw2">ip</span> address<span class="sy0">&gt;</span> <span class="sy0">&lt;</span>port number<span class="sy0">&gt;</span></pre>

<p>
```
If the connection is refused then the hostname or the port number is incorrect.
```html
</p>

</div>
```

```
<h3 id="login-types">2.4 Login Types</h3>
<div class="level3">

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

<p>
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&#8217;ll need to use an SQL Server login, in which case you&#8217;ll need to enable
&quot;SQL Server authentication&quot; or &quot;Mixed authentication&quot;. To verify the authentication type:
</p>
<ul>
<li class="level1"><div class="li"> Select the SQL Server in the Enterprise Manager</div>
</li>
<li class="level1"><div class="li"> Open the properties dialog</div>
</li>
<li class="level1"><div class="li"> Select the security tab</div>
</li>
</ul>

<p>
If you want to use &quot;Windows NT authentication&quot; with i-net software&#8217;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
<a href="#named-pipes" title=" Named Pipes" class="wikilink1"> Named Pipes</a> 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.
</p>

</div>

<h3 id="driver-class-name">2.5 Driver Class Name</h3>
<div class="level3">

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

<p>
```

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

<p>
The following DataSources are only available in OPTA and MERLIA
</p>
<div class="table "><table class="inline">
 <tr class="row0">
  <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 DTCProxy on the MS SQL Server side. You should use XA only if you it need. Using XA may result in a considerable performance decrease. </td>
 </tr>
</table></div>

<p>
For a list of DataSource Properties look in the API documentation.
</p>

</div>

<h3 id="jdbc-url-subprotocols">2.6 JDBC URL Subprotocols</h3>
<div class="level3">
<div class="table "><table class="inline">
 <tr class="row0">
  <td class="col0"> jdbc:inetdae7: .... </td><td class="col1"> support of the SQL Server 7.0 (or higher) feature with unicode data types nText, nVarchar and nChar (the same as ...&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. see character converting JDBC 4.0 API </td>
 </tr>
 <tr class="row2">
  <td class="col0"> jdbc:inetdae6: .... </td><td class="col1"> SQL Server 6.5 compatible mode (passwords are 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>

<h3 id="jdbc-url-syntax-of-the-driver">2.7 JDBC URL Syntax of the driver</h3>
<div class="level3">
<div class="table "><table class="inline">
 <tr class="row0">
 <td class="col0"> jdbc:inetdae7:hostname:portnumber </td><td class="col1 leftalign">  </td>
 </tr>
 <tr class="row1">
 <td class="col0"> jdbc:inetdae7:hostname </td><td class="col1"> &#8211;&gt; with default port 1433 </td>
 </tr>
 <tr class="row2">
 <td class="col0"> jdbc:inetdae7:hostname:portnumber?database=MyDb&amp;language=us_english </td><td
class="col1"> &#8211;&gt; with properties </td>
 </tr>
 <tr class="row3">
 <td class="col0"> jdbc:inetdae7:hostname/instancename </td><td class="col1"> &#8211;&gt; with named instance
of MS SQL Server 2000 and 2005, required the UDP port 1434 </td>
 </tr>
 <tr class="row4">
 <td class="col0"> jdbc:inetdae7:<em>servername/pipe/pipename | &#8211;&gt; with named pipes |
| jdbc:inetdae7:</em>servername/pipe/MSSQL$instancename/sql/query </td><td class="col1"> &#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>
<div class="level3">

<p>
The pooled driver is only part of OPTA and MERLIA.
</p>
<ul>
<li class="level1"><div class="li"> jdbc:inetpool:&lt;subprotocol with parameter&gt;</div>
</li>
<li class="level1"><div class="li"> jdbc:inetpool:jdbc:&lt;subprotocol with parameter&gt;</div>
</li>
</ul>
```

```
<p>
Examples:
</p>
<ul>
<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: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>

</div>

<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 &quot;&quot;<br/>
&quot;&quot; &#8594;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
connection.
                                                                                     </t
d>
 </tr>
 <tr class="row6">
  <th class="col0 leftalign"> nowarnings         </th><td class="col1 leftalign"> &quot;true&quot; getWarnings()
returns null


         </td>
 </tr>
 <tr class="row7">
  <th class="col0 leftalign"> logging           </th><td class="col1 leftalign"> default is &quot;false&quot;<br/>
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 class="row8">
  <th class="col0 leftalign"> sql7             </th><td class="col1 leftalign"> default is &quot;false&quot; with
&quot;inetdae&quot;<br/>
&quot;true&quot; the new datatypes are supported<br/>
this property works only with the classic subprotocol &quot;inetdae&quot;


</td>
 </tr>
 <tr class="row9">
  <th class="col0 leftalign"> secureLevel        </th><td class="col1 leftalign"> default is 1; set the level of <a
href="#the-driver-option-securelevel" title=" security with SSL" class="wikilink1"> security with SSL</a>.


                                           </td>
 </tr>
 <tr class="row10">
  <th class="col0 leftalign"> prepare           </th><td class="col1 leftalign"> default is &quot;true&quot;,
PreparedStatements are prepared on the SQL Server,<br/>
&quot;false&quot; the driver sends for every call of execute() all data


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

Set the time in seconds that an unused PreparedStatement handle is live before it is unprepared. A value of 0 means an unlimited live time.

</td> </tr> <tr class="row12"> <th class="col0 leftalign"> lastUpdateCount </th><td class="col1 leftalign"> default is "false";
If the value is "true" then the method executeUpdate() should return the last update count. This property is helpful if you use PreparedStatements on tables with triggers. In this case the first update count is the count of the trigger. With this property you can receive the last update count which is ever the count of your UPDATE or INSERT expression. This property make problems with expression that return multiple update counts. In this case you receive also only the last update count. </td>
</tr>
<tr class="row13">
<th class="col0 leftalign"> loginTimeout </th><td class="col1 leftalign"> override the value from DriverManager.getLoginTimeout()

</td>
</tr>
<tr class="row14">
<th class="col0 leftalign"> queryTimeout </th><td class="col1 leftalign"> default is 5 * loginTimeout. Set the default query timeout for all Statements.

</td>
</tr>
<tr class="row15">
<th class="col0 leftalign"> JAVA_OBJECT </th><td class="col1 leftalign"> default is "true";
The method getObject() converts valid Java serialized data in IMAGE columns to a Java Object. This is required to implement the type JAVA_OBJECT but it can be fatal if you implement your own Object serialization. If you use your own Java serialization then the best solution is to use getBytes() and not getObject().
</td> </tr> <tr class="row16"> <th class="col0 leftalign"> appname </th><td class="col1 leftalign"> Application name (only Application and Enterprise licenses)

</td>
</tr>
<tr class="row17">
<th class="col0 leftalign"> WSID </th><td class="col1 leftalign"> Workstation ID. The default value is the host name of the local computer. With the WSID you can set the return value of the transact SQL method HOST_NAME().
</td> </tr> <tr class="row18"> <th class="col0 leftalign"> useCursorsAlways </th><td class="col1 leftalign"> default is "false";
"true" the method executeQuery always uses server cursors.

</td>
</tr>
<tr class="row19">
<th class="col0 leftalign"> resultSetType </th><td class="col1 leftalign"> default is "1003" (ResultSet.TYPE_FORWARD_ONLY)
A list of valid values can find in chapter Scrolling Cursor Types.

</td> </tr> <tr class="row20">
<th class="col0 leftalign"> useInsteadOfTrigger </th><td class="col1 leftalign"> default is
“false”
“true” - in a query with multiple tables all are updated in one step
with updateRow(). You need a INSTEAD OF trigger.
</td> </tr> <tr class=
"row21">
<th class="col0 leftalign"> impltran   </th><td class="col1 leftalign"> with Driver the default is
"true" for compatibility with the JDBC-ODBC bridge.
with DataSource the default is "false" to reduce deadlock problems
If the value is true then the method setTransactionIsolation() will call setAutoCommit(false) implicitly and start a
transaction.
</td>
</tr>
<tr class="row22">
<th class="col0 leftalign"> fulltran   </th><td class="col1 leftalign"> default is "true", creates
always a transaction with setAutoCommit(false);
"false" only if needed With the option fulltran=true the method setAutoCommit() uses "BEGIN
TRAN" and "COMMIT TRAN". If the flag auto commit is set then there will always be a running
transaction.With fulltran=false the method setAutoCommit() uses "SET IMPLICIT_TRANSACTIONS
ON" and "SET IMPLICIT_TRANSACTIONS OFF". If the flag auto commit is set then the
transactions will only start if needed.More information on these SQL expressions and their behaviour can be found
in the MSSQL Server Online Manual. </td>
</tr>
<tr class="row23">
<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="row24">
<th class="col0 leftalign"> statusRequest   </th><td class="col1 leftalign"> Set the mode with which the <abbr
title="Application Programming Interface">API</abbr> requests the status of a connection. There are 2 possible
modes: * safe (default) - an additional round trip to the database is executed.   * fast - the current value of an
internal variable is returned. Currently this has only an effect for getTransactionIsolationLevel()
</td> </tr> <tr class="row25"> <th class="col0 leftalign"> fastbatch   </th><t
d class="col1 leftalign"> default is true
Control if executeBatch() should use one round trip or execute every command as a single command. If
fastbatch=true then the resulting update counts can be wrong if every single command does not produce a single
count. This can occur with triggers. If you need an exact update count then you should use fastbatch=false.
</td> </tr> <tr 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="row2
7">
<th class="col0 leftalign"> host   </th><td class="col1 leftalign"> override the value in the JDBC <abbr

title="Uniform Resource Locator">URL</abbr>. This is the host name of the SQL Server. But it can be also a VNN (virtual network name) if you use also the property "instance".

```
                                          </td> </tr> <tr
class="row28">
  <th class="col0 leftalign"> instance        </th><td class="col1 leftalign"> override the value in the JDBC <abbr
title="Uniform Resource Locator">URL</abbr>, required the UDP port 1434


                                        </td>
 </tr>
 <tr class="row29">
  <th class="col0 leftalign"> port            </th><td class="col1 leftalign"> override the value in the JDBC <abbr
title="Uniform Resource Locator">URL</abbr>


                                        </td>
 </tr>
 <tr class="row30">
  <th class="col0 leftalign"> failover        </th><td class="col1 leftalign"> see chapter &quot;Failover on
getConnection()&quot;


            </td>
 </tr>
 <tr class="row31">
  <th class="col0 leftalign"> mars            </th><td class="col1 leftalign"> Enables (&quot;true&quot;) or disables
(&quot;false&quot;) the MARS (multiple active resultsets) mode. In this mode the data of ResultSets will be fetched
on demand and not alltogether. This property can be used when connecting to SQL Server 2005 only.
                                          </td> </tr> <tr class="row32"
>
  <th class="col0 leftalign"> packetSize      </th><td class="col1 leftalign"> Sets the network packet size. The
default value is 8000. The value can be between 512 and 32767 or 0. A value of 0 means to use the server default
value which is by default 4096.
                                    </td> </tr> <tr class="row33">  <th class="col0 leftalign"> mode
        </th><td class="col1 leftalign"> Only for DataSources. The value is equals to the JDBC sub protocol. See
the <a href="doc/index.67c26e572542f9b2e52207bf2f957253.html#setMode%28int%29" target="_blank"
class="wikilink1">API documentation</a> for more details.
                                    </td> </tr> <tr class="row34"
>
  <th class="col0 leftalign"> typeMapping     </th><td class="col1 leftalign"> default is jdbc4<br/>
Which data type constant should be used from the driver. Available options are <em>jdbc3</em>, <em>
jdbc4</em> and <em>odbc</em>. Since driver version 7.0 jdbc4 is the default value. Before it was odbc. The
difference between the options are the new data type of JDBC4 like NCHAR and NVARCHAR.
                                    </td> </tr> <tr class="row35">  <th class="col0 leftalign"> sqlxml
</th><td class="col1 leftalign"> default is false, if true then getObject(x) returns an instance of SQLXML if the data
type is XML.
                                    </td> </tr> </table></div> <p> Th
ere are three ways to put the properties to the driver:
</p>
<ol>
<li class="level1"><div class="li"> append the properties to the <abbr title="Uniform Resource
```

Locator">URL</abbr> like jdbc:inetdae:hostname:portnumber?database=MyDb&language=deutsch</div>

<li class="level1"><div class="li"> call method getConnection(String url, Properties info) from the driver
manager.</div>

<li class="level1"><div class="li"> create a DataSource and set the properties with the set methods.</div>

</div>

<h3 id="connections-to-the-msde-2000-release-a">2.10 Connections to the MSDE 2000 Release A</h3>
<div class="level3">

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

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

<em class="u">Comments of the switches:

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

SECURITYMODE=SQL
Set the Authentfication 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

</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. <br/>
(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<br/>
connection pooling.
</p>

</div>

<h4 id="withdatasourcejava">WithDataSource.java</h4>
<div class="level4">

<p>
How to create a connection with a datasource.
</p>

</div>

<h4 id="withpooldatasourcecejava">WithPoolDataSourece.java</h4>
<div class="level4">

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

</div>

<h4 id="withpoolmanagerjava">WithPoolManager.java</h4>
<div class="level4">

<p>
This demonstrates the use of the PoolManager i-net PLEXA&#8482;. i-net PLEXA&#8482; is an example of a pool
manager. i-net PLEXAtm) comes with i-net OPTA&#8482;.
</p>

</div>

<h4 id="withjdbcrowsetjava">WithJDBCRowSet.java</h4>
<div class="level4">
```

```
<p>
How to use the JDBCRowSet from i-net software (i-net OPTA&#8482;).
</p>

</div>

<h4 id="withjndijava">WithJNDI.java</h4>
<div class="level4">

<p>
This demonstrates the use of a DataSource with a JNDI directory.
</p>

</div>

<h4 id="withjndiandpoolmanagerjava">WithJndiAndPoolManager.java</h4>
<div class="level4">

<p>
This demonstrates the use of a ConnectionPoolDataSource with a JNDI directory and the PoolManager (i-net
PLEXA&#8482;).
</p>

</div>

<h4 id="package-samplexa">Package sample.xa</h4>
<div class="level4">

<p>
A sample with EJB and a XADataSource.
</p>

</div>

<h2 id="named-pipes">3. Named Pipes</h2>
<div class="level2">

<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 &quot;/sql/query&quot;, but you can change this pipe name in the server
network manager.
```

```
</p>

</div>

<h2 id="escape-clauses">4. Escape Clauses</h2>
<div class="level2">

<p>
The driver implements all escape clauses as follows:
</p>

</div>

<h3 id="date-and-time">4.1 Date and Time</h3>
<div class="level3">
<pre class="code">{d &#039;yyyy-mm-dd&#039;}
{t &#039;hh:mm:ss[.fff]&#039;}
{ts &#039;yyyy-mm-dd hh:mm:ss[.fff]&#039;}</pre>

</div>

<h3 id="stored-procedures">4.2 Stored Procedures</h3>
<div class="level3">
<pre class="code">{call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?][...])}
{? = call storedProcedures(&#039;Param1&#039;[,&#039;Param2&#039;][,?][...])}</pre>

<p>
examples:
</p>
<pre class="code java">st <span class="sy0">=</span> con.<span class="me1">createStatement</span><span
class="br0">&#40;</span><span class="br0">&#41;</span><span class="sy0">;</span>
st.<span class="me1">execute</span><span class="br0">&#40;</span><span class="st0">&quot;{call
MyProc('value')}&quot;</span><span class="br0">&#41;</span><span class="sy0">;</span>
 
pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span><span
class="br0">&#40;</span><span class="st0">&quot;{call MyProc('value')}&quot;</span><span
class="br0">&#41;</span><span class="sy0">;</span>
pr.<span class="me1">execute</span><span class="br0">&#40;</span><span class="br0">&#41;</span><span
class="sy0">;</span>
 
pr <span class="sy0">=</span> con.<span class="me1">prepareStatement</span><span
class="br0">&#40;</span><span class="st0">&quot;{call MyProc( ? )}&quot;</span><span
class="br0">&#41;</span><span class="sy0">;</span>
pr.<span class="me1">setString</span><span class="br0">&#40;</span><span
class="st0">&quot;value&quot;</span><span class="br0">&#41;</span><span class="sy0">;</span>
pr.<span class="me1">execute</span><span class="br0">&#40;</span><span class="br0">&#41;</span><span
class="sy0">;</span></pre>
```

```
</div>

<h3 id="functions">4.3 Functions</h3>
<div class="level3">

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

<p>
Time and Date Functions
</p>
<pre class="code">{fn now()}
{fn curdate()}
{fn curtime()}
{fn DAYNAME(datetime)}
{fn DAYOFMONTH(datetime)}
{fn DAYOFWEEK(datetime)}
{fn DAYOFYEAR(datetime)}
{fn HOUR(datetime)}
{fn MINUTE(datetime)}
{fn MONTH(datetime)}
{fn MONTHNAME(datetime)}
{fn QUARTER(datetime)}
{fn SECOND(datetime)}
{fn WEEK(datetime)}
```

```
{fn YEAR(datetime)}
{fn TIMESTAMPDIFF(interval, count, datetime)}
{fn TIMESTAMPADD(interval, datetime, datetime2)}</pre>
```

<p>
interval may be one of the following:
</p>
```
<pre class="code">SQL_TSI_FRAC_SECOND
SQL_TSI_SECOND
SQL_TSI_MINUTE
SQL_TSI_HOUR
SQL_TSI_DAY
SQL_TSI_WEEK
SQL_TSI_MONTH
SQL_TSI_QUARTER
SQL_TSI_YEAR</pre>
```

</div>

```
<h3 id="outer-join">4.4 Outer Join</h3>
<div class="level3">
<pre class="code">{oj table1 LEFT OUTER JOIN table2 ON table1.id = table2.id}
{oj table1 RIGHT OUTER JOIN table2 ON table1.id = table2.id}</pre>
```

</div>

```
<h3 id="encrypt">4.5 Encrypt</h3>
<div class="level3">
<pre class="code">{encrypt N&#039;password&#039;}</pre>
```

</div>

```
<h2 id="character-converting">5. Character Converting</h2>
<div class="level2">
```

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

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

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

case-sensitive.

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

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

</div>

<h3 id="jdbc-40-api">5.1 JDBC 4.0 API</h3>
<div class="level3">

<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.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.
</p>

</div>

<h2 id="new-datatypes">6. New Datatypes</h2>

<h3 id="new-datatypes-with-sql-server-70-and-2000">6.1 New Datatypes with SQL Server 7.0 and 2000</h3>
<div class="level3">

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

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

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

<p>
If you want use the <abbr title="American Standard Code for Information Interchange">ASCII</abbr> data types

Text, Varchar(8000) and Char(8000) then you should use the subprotocol inetdae7a.
</p>

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

<li class="level1"><div class="li"> -8 - NCHAR</div>

<li class="level1"><div class="li"> -9 - NVARCHAR</div>

<li class="level1"><div class="li"> -10 - NTEXT</div>

<li class="level1"><div class="li"> -11 - UNIQUEIDENTIFIER</div>

<li class="level1"><div class="li"> -150 - SQL_VARIANT</div>

</div>

<h3 id="new-data-types-with-sql-server-2005">6.2 New Data types with SQL Server 2005</h3>
<div class="level3">

<p>
SQL Server 2005 supports the following new data types:
</p>

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

<p>
and the enhanced data types:
</p>

<li class="level1"><div class="li"> Varchar(max)</div>

<li class="level1"><div class="li"> NVarchar(max)</div>

<li class="level1"><div class="li"> Varbinary(max)
 </div>

<p>

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>

<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>

</div>

<h3 id="new-data-types-with-sql-server-2008">6.3 New Data types with SQL Server 2008</h3>
<div class="level3">

<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>

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

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

<li class="level1"><div class="li"> DATETIME2</div>

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

<p>
The other new data types:
</p>

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

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

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

<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>

</div>

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


<h3 id="data-type-precedence">7.1. Data Type Precedence</h3>
<div class="level3">

<p>
When two expressions of different data types are combined by an operator, the <a
href="http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tsqlref/ts_da-db_2js5.asp" class="urlextern"
target="_blank" title="http://msdn.microsoft.com/library/default.asp?url=/library/en-us/tsqlref/ts_da-db_2js5.asp">
data type precedence</a> rules specify which data type is converted into the other. The data type with the lower
precedence is converted to the data type with the higher precedence.
</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>
<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>
</ul>

</div>


<h3 id="data-type-mapping">7.2 Data Type Mapping</h3>
<div class="level3">


<p>
If you use the set methods of a PreparedStatement then you will have the following mapping:
</p>
<div class="table "><table class="inline">
 <tr class="row0">
  <td class="col0"> <strong>Method</strong> </td><td class="col1"> <strong>MS SQL Data Type with protocol
inetdae7</strong> </td><td class="col2"> <strong>MS SQL Data Type with protocol inetdae7a</strong> </td>
 </tr>
 <tr class="row1">
  <td class="col0"> setBoolean </td><td class="col1"> BIT </td><td class="col2"> .. </td>
 </tr>
 <tr class="row2">
  <td class="col0"> setByte </td><td class="col1"> TINYINT </td><td class="col2"> .. </td>
 </tr>
 <tr class="row3">
  <td class="col0"> setShort </td><td class="col1"> SMALLINT </td><td class="col2"> .. </td>
 </tr>
 <tr class="row4">
  <td class="col0"> setInt </td><td class="col1"> INT </td><td class="col2"> .. </td>
 </tr>
 <tr class="row5">
  <td class="col0"> setLong </td><td class="col1"> BIGINT </td><td class="col2"> .. </td>
```

```html
</tr>
<tr class="row6">
 <td class="col0"> setFloat </td><td class="col1"> REAL </td><td class="col2"> .. </td>
</tr>
<tr class="row7">
 <td class="col0"> setDouble </td><td class="col1"> FLOAT </td><td class="col2"> .. </td>
</tr>
<tr class="row8">
 <td class="col0"> setBigDecimal </td><td class="col1"> DECIMAL </td><td class="col2"> .. </td>
</tr>
<tr class="row9">
 <td class="col0"> setString </td><td class="col1"> &#8656; 4000 NVARCHAR<br/>
&gt; 4000 NTEXT </td><td class="col2"> &#8656; 8000 VARCHAR<br/>
&gt; 8000 TEXT </td>
</tr>
<tr class="row10">
 <td class="col0"> setAsciiStream </td><td class="col1"> &#8656; 8000 VARCHAR<br/>
&gt; 8000 TEXT </td><td class="col2"> .. </td>
</tr>
<tr class="row11">
 <td class="col0"> setClob </td><td class="col1"> &#8656; 4000 NVARCHAR<br/>
&gt; 4000 NTEXT </td><td class="col2"> &#8656; 8000 VARCHAR<br/>
&gt; 8000 TEXT </td>
</tr>
<tr class="row12">
 <td class="col0"> setCharacterStream </td><td class="col1"> &#8656; 4000 NVARCHAR<br/>
&gt; 4000 NTEXT </td><td class="col2"> &#8656; 8000 VARCHAR<br/>
&gt; 8000 TEXT </td>
</tr>
<tr class="row13">
 <td class="col0"> setDate </td><td class="col1"> DATETIME </td><td class="col2"> .. </td>
</tr>
<tr class="row14">
 <td class="col0"> setTime </td><td class="col1"> DATETIME </td><td class="col2"> .. </td>
</tr>
<tr class="row15">
 <td class="col0"> setTimestamp </td><td class="col1"> DATETIME </td><td class="col2"> .. </td>
</tr>
<tr class="row16">
 <td class="col0"> setBytes </td><td class="col1"> &#8656; 8000 &#8211;&gt; VARBINARY<br/>
&gt; 8000 &#8211;&gt; IMAGE </td><td class="col2"> .. </td>
</tr>
<tr class="row17">
 <td class="col0"> setBinaryStream </td><td class="col1"> IMAGE </td><td class="col2"> .. </td>
</tr>
<tr class="row18">
 <td class="col0"> setBlob </td><td class="col1"> IMAGE </td><td class="col2"> .. </td>
</tr>
```

```
</table></div>

</div>

<h3 id="the-performance-problem">7.3 The Performance Problem</h3>
<div class="level3">

<p>
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&#039;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>
<strong>Solutions:</strong><br/>
1.) Use the correct set method.
</p>

<p>
2.) Use a cast around the parameter to inform the MS SQL Server that it can convert the parameter. This looks
like:<br/>
... cast(? as TINYINT)
</p>

<p>
3.) Change the data type of the table.
</p>

</div>

<h3 id="numeric-columns-and-sql-server-2000-sp4">7.4 Numeric columns and SQL Server 2000 SP4</h3>
<div class="level3">

<p>
BigDecimal parameter send by driver will processed up to 20% slower. This happens if parameter definition send by
Driver don&#039;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&#039;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; &quot;select * from testnumeric where a = CAST(? AS numeric(7,0))&quot;&quot;
</p>

</div>
```

8. Scrolling Cursor Types

id	Description	
id	**Description**	
TYPE_FORWARD_ONLY-1	Fast-Forward	A forward only cursor with activated optimation.
TYPE_FORWARD_ONLY	Forward-only	The fetch functions will allow only a fetchtype of FIRST, NEXT, or RELATIVE with a positive rownum.
TYPE_SCROLL_INSENSITIVE	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.
TYPE_SCROLL_SENSITIVE	Keyset cursor	The fetch functions will allow all fetchtype values.
TYPE_SCROLL_SENSITIVE+1	Dynamic cursor	The fetch functions will allow all fetchtype values except RANDOM. All position-reporting methods returns always false.

9. Locking and Concurrency Control

Concurrency type is one of the following concurrency control options.

concurrency type	Description
concurrency type	**Description**
CONCUR_READ_ONLY	Read-only cursor. You cannot modify rows in the cursor result set.

```
    </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>

</div>

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


<h3 id="failover-on-getconnection">10.1 Failover on getConnection()</h3>
<div class="level3">

<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/>
<br/>
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>

</div>
```

```
<h3 id="failover-with-clusters">10.2 Failover with Clusters</h3>
<div class="level3">


<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>


</div>


<h3 id="monitored-failover">10.3 Monitored Failover</h3>
<div class="level3">


<p>
With the interface FailoverListener it is possible to manage the reconnection process. The FaloverListener receives
an event if the Connection was broken, if the reconnection process was successful and if an error occurred be the try
of reconnect. In depend of the value returned from FailoverListener, a new try of reconnect will be started or not.
The Connection 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&#039;t be restored.
For restore that, you have to executed the Statement again. <br/>
For more information see com.inet.pool.PoolManager.addFailoverListener(), com.inet.pool.FailoverListener,
com.inet.pool.FailoverEvent and sample.MonitoredFailover
</p>


</div>


<h3 id="configuration-via-connection-properties">10.3.1 Configuration via Connection properties</h3>
<div class="level3">


<p>
There are multiple possibilities about how to configure the Monitored Failover.<br/>
It is possible to use the default implementation of the FailoverListener or to use your own implementation.<br/>
The default FailoverListener is similar to the TimedFailoverListener in the samples package.<br/>
To every created Connection automatically an instance of the configured FailoverListener will be added.<br/>
<br/>
Set a FailoverListener via Connection properties:
</p>
<div class="table "><table class="inline">
 <tr class="row0">
  <td class="col0"> <strong>name</strong> </td><td class="col1"> <strong>default</strong> </td><td
class="col2"> <strong> description</strong> </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>
```

```html
</tr>
 <tr class="row2">
  <td class="col0"> waitTimeToNextAttempt </td><td class="col1"> 500 </td><td class="col2"> property for the
default FailoverListener. Sets the wait time in millis, that will be wait to the next reconnect attempt. </td>
 </tr>
 <tr class="row3">
  <td class="col0"> totalTimeOfAttempts </td><td class="col1"> 30 </td><td class="col2"> property for the default
FailoverListener. Sets the total time in seconds, in that the reconnection process must be finished. </td>
 </tr>
 <tr class="row4">
  <td class="col0"> failoverListener </td><td class="col1"> - </td><td class="col2"> the class name of your own
FailoverListener implentation. This class has to implement the FailoverListener interface AND the default public
constructor. This is important to create a new instance of this class via reflection. </td>
 </tr>
</table></div>


<p>
example URLs:<br/>
jdbc:inetpool:inetora:localhost?database=orcl&amp;useDefaultFailoverListener=true&amp;waitTimeToNextAttemp
t=100&amp;totalTimeOfAttempts=10<br/>
jdbc:inetpool:inetora:localhost?database=orcl&amp;failoverListener=test.MyFirtsFailoverListener<br/>


</p>


</div>


<h3 id="configuration-in-java">10.3.2 Configuration in Java</h3>
<div class="level3">


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


<p>
```

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

</p>
<pre class="code java">//receive a Connection
Class.forName("com.inet.pool.PoolDriver");
<a target="_blank"
href="http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+connection"><
span class="kw3">Connection con = <a target="_blank"
href="http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+drivermanager
">DriverManager.getConnection("jdbc:inetpool:inetora:localhost?database=orcl",
"scott", "tiger");

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

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

//remove all FailoverListener
((TAFConnection)con).removeAllFailoverListener();

//get all registered FailoverListener
FailoverListener[] fls = getFailoverListener();</pre>

</div>

<h2 id="snapshot-transaction-isolation">11. Snapshot Transaction Isolation</h2>
<div class="level2">

```
<p>
The SQL Server 2005 supports the new transaction isolation level snapshot. This is not a JDBC standard isolation
level but you can use it with this driver. There are the following possible solutions:
</p>
<ol>
<li class="level1"><div class="li"> <strong>Modify the database</strong><br/>
You can modify the database with the following SQL statement<br/>
ALTER DATABASE &lt;database name&gt; SET ALLOW_SNAPSHOT_ISOLATION ON<br/>
 </div>
</li>
<li class="level1"><div class="li"> <strong>initSQL</strong><br/>
If you do not change the level at using of connection then you can set it at creation of the connection with:<br/>
initSQL=SET TRANSACTION ISOLATION LEVEL SNAPSHOT<br/>
 </div>
</li>
<li class="level1"><div class="li"> <strong>Executing a statement</strong><br/>
You can also change it with the following Java line:<br/>
conn.createStatement().execute(&quot;SET TRANSACTION ISOLATION LEVEL SNAPSHOT&quot;);<br/>
 </div>
</li>
<li class="level1"><div class="li"> <strong>setTransactionIsolation</strong><br/>
Since version 6.08.04 you can also set it via <abbr title="Application Programming Interface">API</abbr>
with:<br/>
conn.setTransactionIsolation(4096);<br/>
 </div>
</li>
</ol>

</div>

<h2 id="debugging">12. Debugging</h2>
<div class="level2">

<p>
If you have problems with the driver then you can enable the logging of the driver. There are different solutions.
</p>
<div class="table "><table class="inline">
 <tr class="row0">
  <td class="col0"> <strong>Solutions</strong> </td><td class="col1"> <strong>examples</strong> </td><td
class="col2"> <strong>Comments</strong> </td>
 </tr>
 <tr class="row1">
  <td class="col0"> DriverManager.setLogStream(PrintStream) </td><td class="col1">
DriverManager.setLogStream( System.out );DriverManager.setLogStream( new
FileOutputStream(&quot;c:\;\;driver.log&quot;) ); </td><td class="col2"> This method is deprecated but it work
with all JDBC drivers. </td>
 </tr>
```

```
 <tr class="row2">
  <td class="col0"> DriverManager.setPrintWriter(PrintWriter) </td><td class="col1">
DriverManager.setPrintWriter( new PrintWriter( System.out ) ) </td><td class="col2"> work not with JDBC 1.22
driver like i-net UNA </td>
 </tr>
 <tr class="row3">
  <td class="col0"> Application Server <abbr title="Graphical User Interface">GUI</abbr> </td><td class="col1">
<strong>WebLogic:</strong> Enable the JDBC logging in the server console on the node
servers/myserver/logging/JDBC<strong>JBoss:</strong> You can set it for every DataSource in the config file
with:<br/>
....<br/>
&lt;attribute name=&quot;LoggingEnabled&quot;&gt;true&lt;/attribute&gt;<br/>
.... </td><td class="col2 leftalign">  </td>
 </tr>
 <tr class="row4">
  <td class="col0"> myDataSource.setPrintWriter(PrintWriter) </td><td class="col1"> myDataSource.setPrintWriter(
new PrintWriter( System.out ) ) </td><td class="col2"> enable the logging only for connections from this
DataSource </td>
 </tr>
 <tr class="row5">
  <td class="col0"> JDBC <abbr title="Uniform Resource Locator">URL</abbr> option &quot;logging=true&quot;
</td><td class="col1"> jdbc:inetdae7:localhost?logging=true </td><td class="col2 leftalign">  </td>
 </tr>
</table></div>

</div>

<h2 id="support">13. Support</h2>
<div class="level2">

<p>
Before you ask our support staff for assistance please check out our <a
href="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm" class="urlextern" target="_blank"
title="http://www.inetsoftware.de/products/jdbc/mssql/faq.htm">FAQ</a>. Thank you very much for your
collaboration.
</p>

<p>
The latest support information are available at: <a href="http://www.inetsoftware.de/support" class="urlextern"
target="_blank" title="http://www.inetsoftware.de/support">http://www.inetsoftware.de/support</a>
</p>

<p>
Support is available per email (replace at with @):
</p>
<div class="table "><table class="inline">
 <tr class="row0">
  <td class="col0"> Licensing, Pricing, Updates, ... </td><td class="col1"> sales at inetsoftware.de </td>
```

```
</tr>
<tr class="row1">
 <td class="col0"> i-net UNA </td><td class="col1"> una at inetsoftware.de </td>
</tr>
<tr class="row2">
 <td class="col0"> i-net SPRINTA </td><td class="col1"> sprinta at inetsoftware.de </td>
</tr>
<tr class="row3">
 <td class="col0"> i-net OPTA </td><td class="col1"> opta at inetsoftware.de </td>
</tr>
<tr class="row4">
 <td class="col0"> i-net MERLIA </td><td class="col1"> merlia at inetsoftware.de </td>
</tr>
<tr class="row5">
 <td class="col0"> i-net GATE </td><td class="col1"> opta at inetsoftware.de </td>
</tr>
<tr class="row6">
 <td class="col0"> i-net GATE3 </td><td class="col1"> merlia at inetsoftware.de </td>
</tr>
</table></div>

</div>


<h2 id="documentation">14. Documentation</h2>
<div class="level2">


<p>
You can find more documentation at:<br/>
<a href="http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm" class="urlextern" target="_blank"
title="http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm">
http://www.inetsoftware.de/products/jdbc/mssql/documentation.htm</a>
</p>


</div>


<h2 id="known-problems">15. Known problems</h2>
<div class="level2">
<ul>
<li class="level1"><div class="li"> SQL Server 2005: if String parameter are used for integer parameter the
following error will received: [HOST]Operand type clash: ntext is incompatible with int<br/>
possible workarounds are:</div>
<ul>
<li class="level2"><div class="li"> set integer values instead of Strings</div>
</li>
<li class="level2"><div class="li"> use JDBC <abbr title="Uniform Resource Locator">URL</abbr>
&quot;jdbc:inetdae7a&quot; - take care about no unicode support</div>
</li>
<li class="level2"><div class="li"> set JDBC <abbr title="Uniform Resource Locator">URL</abbr> parameter
```

"tds9=false" - results in unsupport of new sql server 2005 data types</div>

<li class="level1"><div class="li"> When using named pipes, setting timeout has no effect.</div>

<li class="level1"><div class="li"> When using named pipes, cancel() has no effect.</div>

<li class="level1"><div class="li"> The method getTableName() requires a cursor or the "for browse" statement.</div>

<li class="level1"><div class="li"> Calling stored procedures with output parameters from type binary or char produce output with value 0x00 and spaces cut. (e.g., you have a sp with the parameter "char(10) output" and the output value is "abc   " you receive the value "abc").</div>

<li class="level1"><div class="li"> The classes Array, Ref and <abbr title="Uniform Resource Locator">URL</abbr> are not supported because this are not supported by the SQL Server.</div>

<li class="level1"><div class="li"> The following methods are not supported by this release:</div>

<li class="level2"><div class="li"> PrepareStatement.setArray (int i, Array x)</div>

<li class="level2"><div class="li"> PrepareStatement.setRef (int i, Ref x)</div>

<li class="level2"><div class="li"> PrepareStatement.setURL ="int-i-abbr-title-Uniform-Resource-Locator-URL-/abbr-x"</div>

<li class="level2"><div class="li"> CallableStatement.getObject (int i, java.util.Map map)</div>

<li class="level2"><div class="li"> CallableStatement.getRef (int i)</div>

<li class="level2"><div class="li"> CallableStatement.getArray (int i)</div>

<li class="level2"><div class="li"> CallableStatement.getURL ="int-i"</div>

<li class="level2"><div class="li"> All method with a named parameter.</div>

<li class="level2"><div class="li"> DatabaseMetaData.getUDTs (String catalog, String schemaPattern, String typeNamePattern, int[] types)</div>

<li class="level2"><div class="li"> DatabaseMetaData.getAttributes (String catalog, String schemaPattern, String typeNamePattern, String attributeNamePattern)</div>

<li class="level2"><div class="li"> ResultSet.getObject (int i, java.util.Map map)</div>

<li class="level2"><div class="li"> ResultSet.getRef (int i)</div>

<li class="level2"><div class="li"> ResultSet.getArray (int i)</div>

```
</li>
<li class="level2"><div class="li"> ResultSet.getURL ="int-i"</div>
</li>
<li class="level2"><div class="li"> ResultSet.updateArray (int i, Array x)</div>
</li>
<li class="level2"><div class="li"> ResultSet.updateRef (int i, Ref x)</div>
</li>
<li class="level2"><div class="li"> All setXXX methods in Blob and Clob.</div>
</li>
</ul>
</li>
</ul>

</div>

<h2 id="using-ssl-connections">16. Using SSL connections</h2>
<div class="level2">

<p>
If you want to use SSL (Secure Sockets Layer) with i-net JDBC drivers and the MS SQL Server then you need to
install:
</p>
<ul>
<li class="level1"><div class="li"> a server-wide certificate on the computer with the MS SQL Server 2000.</div>
</li>
</ul>
<blockquote><div class="no">
<em>Note:</em>: You don&#039;t need to install a certificate when using SQL Server 2005. The SQL Server 2005
installs a certificate on setup.</div></blockquote>
<blockquote><div class="no">
<strong>WARNING</strong>: After you have installed this certificate, connecting via ODBC only works with
SSL. The ODBC driver only accepts trusted certificates (from a known agency). If you create your own certificate
(not from a public Certificate Authority such as Verisign or Thawty) then you&#039;ll need to add it to every
ODBC client.</div></blockquote>
<ul>
<li class="level1"><div class="li"> the JSSE (Java Secure Socket Extension). The JSSE is included in the JDK 1.4
and in the J2EE. If you use the JDK 1.2 or the JDK 1.3 without J2EE (or another application server) then you need
to <a href="http://java.sun.com/products/jsse/" class="urlextern" target="_blank"
title="http://java.sun.com/products/jsse/"> download the JSSE</a> and add it to your classpath.</div>
</li>
</ul>

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

```
</div>

<h3 id="create-a-certificate-request">16.1. Create a Certificate Request</h3>
<div class="level3">

<p>
This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
</p>
<ul>
<li class="level1"><div class="li"> Run the Internet Services Manager that is located in the Administrative Tools
folder.</div>
</li>
<li class="level1"><div class="li"> Right-click on the Default Web Site node for the server and select
&quot;Properties&quot; from the context menu.</div>
</li>
<li class="level1"><div class="li"> Click on the &quot;Directory Security&quot; tab.</div>
</li>
<li class="level1"><div class="li"> Click on the &quot;Server Certificate&quot; button. A wizard should
appear.</div>
</li>
<li class="level1"><div class="li"> Click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> The &quot;Create a new certificate&quot; radio button should be selected. Click
the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> The &quot;Prepare request now, but send it later&quot; radio button should be
selected. Click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> Click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> Enter your organization name and unit and click the &quot;Next&quot;
button.</div>
</li>
<li class="level1"><div class="li"> In the Common name field enter the fully qualified IP hostname of your server.
e.g., www.inetsoftware.de. Click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> Enter your State and City. Click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> Accept the default file name of c:\;certreq.txt and click the &quot;Next&quot;
button.</div>
</li>
<li class="level1"><div class="li"> Click the Next button, then click Finish.</div>
</li>
</ul>

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

```
</p>

</div>

<h3 id="create-a-certificate-with-the-certificate-server">16.2. Create a Certificate with the Certificate Server</h3>
<div class="level3">

<p>
This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
</p>
<ul>
<li class="level1"><div class="li"> Install the Microsoft Certificate Services. You should not do it on the same
computer hosting the MS SQL Server.</div>
</li>
<li class="level1"><div class="li"> Run Notepad and open c:\;certreq.txt. Hit Ctrl+A to select the entire text. Hit
Ctrl+C to copy the text to the clipboard.</div>
</li>
<li class="level1"><div class="li"> Run Internet Explorer and enter the <abbr title="Uniform Resource
Locator">URL</abbr><br/>
http://YourCertificateServer/certsrv.</div>
</li>
<li class="level1"><div class="li"> Select &quot;Request a Certificate&quot; and click &quot;Next&quot;.</div>
</li>
<li class="level1"><div class="li"> Select &quot;Advanced Request&quot; and click &quot;Next&quot;.</div>
</li>
<li class="level1"><div class="li"> Select the PKCS#10 option and click &quot;Next&quot;.</div>
</li>
<li class="level1"><div class="li"> Paste the text that you copied in notepad earlier into the &quot;Saved
Request&quot; field, then click the &quot;Next&quot; button.</div>
</li>
<li class="level1"><div class="li"> It will tell you the request is pending. Click on the home hyperlink at the
top.</div>
</li>
<li class="level1"><div class="li"> Run the Certificate Authority application that is located under Adminstrative
Tools.</div>
</li>
<li class="level1"><div class="li"> Click on Pending Requests. You&#039;ll see the request that you just made in
there.</div>
</li>
<li class="level1"><div class="li"> Right-click on the request and select All Tasks/Issue.</div>
</li>
<li class="level1"><div class="li"> Now, go back to the computer that runs the SQL Server/IIS where you made the
request from. Select the &quot;Check on pending certifcate&quot; option and click the &quot;Next&quot;
button.</div>
</li>
<li class="level1"><div class="li"> You should see the &quot;Saved-Request Certificate&quot; in there now. Click
the &quot;Next&quot; button.</div>
</li>
```

```html
<li class="level1"><div class="li"> Click the Download CA certificate hyperlink and save the file as c:\;certnew.cer.
Close Internet Explorer.</div>
</li>
</ul>

</div>

<h3 id="installing-a-certificate">16.3. Installing a Certificate</h3>
<div class="level3">

<p>
This is only needed for SQL Server 2000. This is not required for SQL Server 2005.
</p>
<ul>
<li class="level1"><div class="li"> Right-click on c:\;certnew.cer in Explorer and select Install from the context
menu.</div>
</li>
<li class="level1"><div class="li"> Click next all the way through the wizard selecting the defaults. The certificate
is now installed. If you want to view it you can use MMC.EXE and the Certificates snap-in for the &quot;computer
account&quot;.</div>
</li>
</ul>

</div>

<h3 id="uninstalling-a-certificate">16.4. Uninstalling a Certificate</h3>
<div class="level3">

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

</div>

<h3 id="forcing-protocol-encryption">16.5. Forcing Protocol Encryption</h3>
<div class="level3">

<p>
```

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

</div>

<h3 id="the-driver-option-securelevel">16.6 The Driver Option secureLevel</h3>
<div class="level3">
<div class="table "><table class="inline">
 <tr class="row0">
  <td class="col0"> value </td><td class="col1"> description </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>

<h3 id="changes-in-version-500-merlia-200-9-dec-2002">17.1 Changes in Version 5.00 (MERLIA 2.00) (9. Dec 2002)</h3>
<div class="level3">

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

<li class="level1"><div class="li"> The SQLException toString() from SQL Server looks like the output in the Query Analyzer. It includes info about msg number, level, state, procedure and line. The getMessage() output was not changed.</div>

```
</li>
</ul>

</div>

<h3 id="changes-in-version-501-merlia-201-5-feb-2003">17.2 Changes in Version 5.01 (MERLIA 2.01)  (5. Feb
2003)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> The driver supports precision 38 with SQL Server Version 7.0 and 6.5 and the
/p option now.</div>
</li>
<li class="level1"><div class="li"> ArrayIndexOutOfBoundsException:8190 (value 2*string size) with
prepare=false, unicode mode and large Strings (approx. &gt; 4095).</div>
</li>
<li class="level1"><div class="li"> A bug with wasNull() and getXXX( x, Calendar) was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with isFirst() in CachedRowSet was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with getGeneratedKeys() with PreparedStatements, prepare=true and
SQL Server 2000 was fixed.</div>
</li>
<li class="level1"><div class="li"> A bug with DTCDataSource, SQL Server 7 and WebLogic was fixed.</div>
</li>
<li class="level1"><div class="li"> A ClassCastException in CachedRowSet.acceptChanges() with a Connection
from a lookup was fixed.</div>
</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 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 "money".</div>

<li class="level1"><div class="li"> A dead-lock that could occur in PoolManager.closeAll() was fixed.</div>

<li class="level1"><div class="li"> The error "Cookie from MSDTC is null" was fixed.</div>

<li class="level1"><div class="li"> A bug with setCharacterStream() not working with inetdae7a and prepare=true was fixed.</div>

<li class="level1"><div class="li"> Method PoolManager.closeConnection(Connection) was added.</div>

<li class="level1"><div class="li"> Errors in ResultSet.close() are caught now.</div>

<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 class="level1"><div class="li"> The bug with setMaxRows() not working in conjunction with forward only server cursors was fixed.</div>

<li class="level1"><div class="li"> Connections with a read timeout are removed from the connection pool.</div>

</div>

<h3 id="changes-in-version-503-merlia-203-4-nov-2004">17.4 Changes in Version 5.03 (MERLIA 2.03) (4. Nov 2004)</h3>
<div class="level3">

<li class="level1"><div class="li"> The return value of supportsStatementPooling() was changed.</div>

<li class="level1"><div class="li"> A bug with a DataSource not from the JNDI and equals() was fixed.</div>

<li class="level1"><div class="li"> The method getParameterMetaData() was implemented.</div>

<li class="level1"><div class="li"> The methods setImpltran() and getImpltran() were added.</div>

<li class="level1"><div class="li"> Timestamp objects can be created (read) faster with JDK 1.4.x now.</div>

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

<li class="level1"><div class="li"> The method PreparedStatement.getMetaData() work also with GROUP BY now.</div>

<li class="level1"><div class="li"> Datetime formats with short month and days like '1999-5-5' are

supported now.</div>

<li class="level1"><div class="li"> A bug in CallableStatement with different datatypes for registerOutParameter and setXXX was fixed.</div>

<li class="level1"><div class="li"> The AsciiStream always sends Ascii data (also in unicode mode).</div>

<li class="level1"><div class="li"> The error "Unknown parameter datatype:-12347" with setUnicodeStream and server site PreparedStatement was fixed.</div>

<li class="level1"><div class="li"> The call setObject(x, value, Types.BIT) accepts numeric Strings now.</div>

<li class="level1"><div class="li"> The detecting of the default codepage of the SQL Server 2000 was changed.</div>

<li class="level1"><div class="li"> The error "Connection refused" with TdsDataSource and PoolManager was reduced with a synchronized.</div>

<li class="level1"><div class="li"> The methods getSystemFunctions(), getStringFunctions(), getDateTimeFunctions() and getNumericFunctions() were refactored.</div>

<li class="level1"><div class="li"> The error "Unknown output datatype:2004" with updateBlob(String,Blob) was fixed.</div>

<li class="level1"><div class="li"> The error "Unknown output datatype:2005" with updateClob(String,Clob) was fixed.</div>

<li class="level1"><div class="li"> Clob and Blob support for updateObject(..) was added.</div>

<li class="level1"><div class="li"> The method setMaxFieldSize() has only an effect on the current Statement and not on the connection now.</div>

<li class="level1"><div class="li"> CallableStatement.getObject() returns a Boolean if the value is registered as Types.BIT now.</div>

<li class="level1"><div class="li"> Support for registerOutParameter(x, Types.BOOLEAN) was added.</div>

<li class="level1"><div class="li"> The synchonized from Connection.close() was removed.</div>

</div>

<h3 id="changes-in-version-50301-merlia-20301">17.5 Changes in Version 5.03.01 (MERLIA 2.03.01)</h3>
<div class="level3">

<li class="level1"><div class="li"> The truncate of SP output parameter without input value on length 255 was fixed.</div>

```
</li>
</ul>


</div>


<h3 id="changes-in-version-600-19-jan-2004">17.6. Changes in Version 6.00  (19. Jan 2004)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> Support for SSL was added.</div>
</li>
</ul>


</div>


<h3 id="changes-in-version-601-1-apr-2004">17.7. Changes in Version 6.01  (1. Apr 2004)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> A Bug, that DatabaseMetaData.getColumns returned a ResultSet with 18 instead
of 22 columns was fixed.</div>
</li>
<li class="level1"><div class="li"> A NullPointerException with DataSources was fixed. The bug exists since
6.00.</div>
</li>
<li class="level1"><div class="li"> The methods setSecureLevel() and getSecureLevel() were added.</div>
</li>
<li class="level1"><div class="li"> The regression that connect to MS SQL Server 6.5 fails was fixed.</div>
</li>
<li class="level1"><div class="li"> The regression that connect to MS SQL Server with named pipes and without
SSL fails was fixed.</div>
</li>
<li class="level1"><div class="li"> A ClassCastException with CachedRowSet.setTimestamp( x, Timestamp,
Calendar) and CachedRowSet.setTime( x, Time, Calendar) was fixed.</div>
</li>
<li class="level1"><div class="li"> The ClassNotFoundExption withh SSL on the console with JDK 1.3 was
removed.</div>
</li>
<li class="level1"><div class="li"> The method getColumnDisplaySize() returns the correct size for NUMERIC and
DECIMAL data types now.</div>
</li>
<li class="level1"><div class="li"> Fixes in isAfterLast and isBeforeFirst for empty Resultsets</div>
</li>
<li class="level1"><div class="li"> A bug with ResultSet.updateString( x, null ) was fixed. The bug exists since
5.03.01.</div>
</li>
<li class="level1"><div class="li"> A &quot;connection reset by peer&quot; error with the latest security patch of
MS was fixed. The bug exists since 5.03.01.</div>
</li>
</ul>
```

```
</div>

<h3 id="changes-in-version-602-26-may-2004">17.8. Changes in Version 6.02  (26. May 2004)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> Adjustments for changes in SSL handshaking of JDK 1.5. The MS SQL server
ran to 100% CPU with JDK 1.5.</div>
</li>
<li class="level1"><div class="li"> A bug with getConnection() was fixed. Formerly, a NullPointerException with
named instances to a MS SQL Server with a SSL certificate and the option secureLevel=0 occurred. The drivers
UNA and SPRINTA always use the secureLevel=0.</div>
</li>
<li class="level1"><div class="li"> The wrong message &quot;Statement.cancel:Statement is currently not
running&quot; on running Statements was removed.</div>
</li>
<li class="level1"><div class="li"> The issue that the driver could hang for some time after a protocol violation in
executeQuery() was fixed.</div>
</li>
<li class="level1"><div class="li"> The issue that the driver could hang on getConnection() with login timeout if
you connect to a TCP/IP port of another application was fixed. For example port 21 (<abbr title="File Transfer
Protocol">FTP</abbr>),  80 (HTTP) or 1521 (Oracle).</div>
</li>
<li class="level1"><div class="li"> The garbage output of DatabaseMetaData.getColumns() was fixed. The bug
existed since version 6.01.</div>
</li>
<li class="level1"><div class="li"> Unicode support for many DatabaseMetaData was added. Now table names,
column names, schema names with non English characters work.</div>
</li>
<li class="level1"><div class="li"> The methods setAppname() and getAppname() were added to the
DataSources.</div>
</li>
<li class="level1"><div class="li"> The methods setFulltran() and getFulltran() were added to the
DataSources.</div>
</li>
<li class="level1"><div class="li"> Support for the new protocol of SQLServer 2005 was added.</div>
</li>
<li class="level1"><div class="li"> Support for readout the new datatypes Time, Date, XML, Varchar(max),
NVarchar(max) and Varbinary(max) was added.</div>
</li>
<li class="level1"><div class="li"> Support for writeout the new datatypes  XML, Varchar(max), NVarchar(max)
and Varbinary(max) was added.</div>
</li>
<li class="level1"><div class="li"> The property lastUpdateCount was added.</div>
</li>
<li class="level1"><div class="li"> The sql state &quot;100029&quot; was changed to &quot;07001&quot;. It
depends on the SQLException, whether the number of set parameters is correct or not for
PreparedStatements/CallableStatements.</div>
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</li>
<li class="level1"><div class="li"> A bug with Statement.cancel() and SSL and forceEncryption was fixed.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-603-6-oct-2004">17.9. Changes in Version 6.03  (6. Oct 2004)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> A call of cancel() on creating of a server cursor now throws an SQLException.
Before a corrupt ResultSet was returned.</div>
</li>
<li class="level1"><div class="li"> The methods of DatabaseMetadata with the catalog parameter now returns the
correct result instead of an Exception if the catalog parameter is different from the Connection catalog.</div>
</li>
<li class="level1"><div class="li"> Some changes on the time behavior after a call of cancel() or if a query timeout
occurs.</div>
</li>
<li class="level1"><div class="li"> The timing for resolving the instance name was changed.</div>
</li>
<li class="level1"><div class="li"> The property WSID was added.</div>
</li>
<li class="level1"><div class="li"> The restoring of the connection after an query timeout is faster now if the MS
SQL Server does not need to roll back.</div>
</li>
<li class="level1"><div class="li"> Support for the data type BIGINT in the method updateObject(i,x) was
added.</div>
</li>
<li class="level1"><div class="li"> The data type UNIQUEIDENTIFIER now returns in uppercase for compatibility
with other MS tools.</div>
</li>
<li class="level1"><div class="li"> If a scrollable ResultSet is requested you will now always receive a scrollable
ResultSet. If the MS SQL Server does not support it then it is a memory management scroll insensitive
ResultSet.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException with the setXXX() methods of the
RowSets was fixed if the parameter was not set in numerical order.</div>
</li>
<li class="level1"><div class="li"> An SQLWarning was added to the to XAConnection from XDataSource if a
connection was not closed from the user&#039;s side.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-604-9-feb-2005">17.10. Changes in Version 6.04  (9. Feb 2005)</h3>
<div class="level3">
```

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<ul>
<li class="level1"><div class="li"> Connection failover was expanded to set more than one failoverhost.</div>
</li>
<li class="level1"><div class="li"> Added setLogging(String) and setProperty(String) to class
TdsDataSource.</div>
</li>
<li class="level1"><div class="li"> The following bug has been fixed: A CallableStatement returned wrong out-
parameter values, if the SP was without return-parameter and called himself an other SP with out-parameter.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-605-13-sep-2005">17.11. Changes in Version 6.05  (13. Sep 2005)</h3>
<div class="level3">
<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 <abbr
title="Uniform Resource Locator">URL</abbr>: 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>
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</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
anymore.</div>
</li>
<li class="level1"><div class="li"> Performance increasing: executing a prepared statement runs faster at the first
execute call.</div>
</li>
<li class="level1"><div class="li"> &quot;Create View ...&quot; and &quot;Create Procedure ...&quot; executed as
PreparedStatement now works with SQL Server 2005.</div>
</li>
<li class="level1"><div class="li"> The ResultSet created by Statement.execute() now is from the type defined with
Connection.createStatement(int,int)</div>
</li>
<li class="level1"><div class="li"> Log output extended with information about Connection ID</div>
</li>
<li class="level1"><div class="li"> Performance improvement in ResultSet class.</div>
</li>
<li class="level1"><div class="li"> A thread bug was fixed in PoolManager.getFreeConnectionCount(Object) and
PoolManager.getUsedConnectionCount(Object).</div>
</li>
<li class="level1"><div class="li"> Reading out type money and type smallmoney from sql_variant column was
fixed.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-606-18-jan-2006">17.12. Changes in Version 6.06  (18. Jan 2006)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> New driver property &quot;dstsave&quot;</div>
</li>
<li class="level1"><div class="li"> Receiving a BigDecimal from a BIT column is implemented now. (Threw a
NumberFormatException before)</div>
</li>
<li class="level1"><div class="li"> Reading NULL values from MONEY columns with getDouble() has been fixed
to not throw an Exception anymore.</div>
</li>
<li class="level1"><div class="li"> Reading values from MONEY columns with getDouble() has been fixed to
return correct values.</div>
</li>
<li class="level1"><div class="li"> Since version 6.05 CachedRowSet.populate(ResultSet) didn&#039;t worked.
This is fixed now.</div>
</li>
<li class="level1"><div class="li"> There was a bug in CachedRowSet.createCopy(). The ResultSet hold internally
was shared between the copies. This produced Exceptions if one CachedRowSet was closed.</div>
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</li>
<li class="level1"><div class="li"> An excrescent stacktrace log output was removed. (SocketException)</div>
</li>
<li class="level1"><div class="li"> TdsDriver.getPropertyInfo() was extended, more properties. Values and choices
were added.</div>
</li>
<li class="level1"><div class="li"> Since version 6.05: If a statement was already prepared, executing it as batch
failed.</div>
</li>
<li class="level1"><div class="li"> SQL Server 2005: Fixed a protocol problem with setting a Boolean value and
Types.Bit to PreparedStatement.setObject().</div>
</li>
<li class="level1"><div class="li"> Behaviour change for input parameter that are streams. Those parameter have to
reset for every execution.</div>
</li>
<li class="level1"><div class="li"> PreparedStatement.setObject(int, Object, int, int) and
PreparedStatement.setObject(int, Object, int) with Types.CLOB parameter accept byte[], char[] String and
InputStream values in addition.</div>
</li>
<li class="level1"><div class="li"> since 6.04.12, Statement.setMaxRows(int) had no effect if sql query was
executed with 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&#039;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"> 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>

</div>

<h3 id="changes-in-version-607-2-june-2006">17.13. Changes in Version 6.07  (2. June 2006)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> When the PreparedStatement contained a character sequence in SQL like
&#039;&#8211;&#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 class="level1"><div class="li"> If a statement requested a massive amount of columns, sometimes the Exception "Unknown data type:"... would occur. This is fixed now.</div>

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

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

<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 class="level1"><div class="li"> An "ArrayIndexOutOfBoundsException: 2" with PreparedStatement.executeXXX() was fixed. The exception could occur with an additional PreparedStatement pool.</div>

<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 class="level1"><div class="li"> NPE fix in Statement close() call.</div>

<li class="level1"><div class="li"> IllegalAccessException fixed when trying to access DatabaseMetaData method via reflection.</div>

<li class="level1"><div class="li"> Calling PreparedStatement.executeQuery() after PreparedStatement.execute() could cause an infinite loop.</div>

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


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<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>
</ul>

</div>

<h3 id="changes-in-version-608-26-sep-2006">17.14. Changes in Version 6.08  (26. Sep 2006)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> A NPE with the IBM VM and SSL was compensate through disable the SSL
with this Java VM.</div>
</li>
<li class="level1"><div class="li"> The method PoolManager.getConnection() is follow more the FIFO
concept.</div>
</li>
<li class="level1"><div class="li"> The method equals from TdsDataSource and it subclasses does not work after
creating a connection. This was critical for the size of a pool.</div>
</li>
<li class="level1"><div class="li"> The protocol of the transaction <abbr title="Application Programming
Interface">API</abbr> was changed for the SQL Server 2005 for support MARS in future versions.</div>
</li>
<li class="level1"><div class="li"> Support for MARS was added.</div>
</li>
<li class="level1"><div class="li"> Data larger as 200 <abbr title="Megabyte">MB</abbr> are send as bulk. Now
you can save date until a size of Interger.MAX_VALUE-24.</div>
</li>
<li class="level1"><div class="li"> Only SQL Server 2005: Output parameters returned in wrong order together
with a return parameter.</div>
</li>
<li class="level1"><div class="li"> With MARS enabled the fetch size hint is ignored.</div>
</li>
<li class="level1"><div class="li"> Fast-Forward Cursor is used for ResultSet with FORWARD_ONLY,
READ_ONLY and a fetchsize larger 0. Before it was a Forward-Only Cursor.</div>
</li>
<li class="level1"><div class="li"> AutoClose was added.</div>
</li>
<li class="level1"><div class="li"> In the DTCProxy 2.01 a XA transaction timeout of 10 minutes was
added.</div>
</li>
<li class="level1"><div class="li"> A bug with the PoolManager inactive timeout was fixed.</div>
</li>
</ul>
```

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</div>

<h3 id="changes-in-version-700-14-mar-2007">17.15. Changes in Version 7.00  (14. Mar 2007)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> The exception &quot;sp_cursorfetch: The cursor identifier value provided
(abcdefXX) is not valid.&quot; on ResultSets with Statement.setFetchSize() was fixed.</div>
</li>
<li class="level1"><div class="li"> Every Throwable that occurs in the method Connection.isClosed() now
produces a return value of true.</div>
</li>
<li class="level1"><div class="li"> The warnings of getTransactionIsolation() are ignored now.</div>
</li>
<li class="level1"><div class="li"> The bulk transfer limit was reduced from 200 <abbr
title="Megabyte">MB</abbr> to 100 <abbr title="Megabyte">MB</abbr>.</div>
</li>
<li class="level1"><div class="li"> A bug with commit() and rollback() without a transaction and SQL Server 2005
was fixed.</div>
</li>
<li class="level1"><div class="li"> The default value of dstSave was changed to true.</div>
</li>
<li class="level1"><div class="li"> Date and Timestamp objects are now checked for a valid range. If the is value
outside of a valid SQL Server DATETIME then an exception is thrown.</div>
</li>
<li class="level1"><div class="li"> Transaction isolation snapshot was added.</div>
</li>
<li class="level1"><div class="li"> The JDBC 4 feature of negative length for streaming values was added.</div>
</li>
<li class="level1"><div class="li"> A connection with XA transaction is using the isolation level like before starting
the transaction. Older versions of the driver has used the default SERIALIZABLE.</div>
</li>
<li class="level1"><div class="li"> ResultSet.getAsciiStream() caused a NullPointerException if the value of the
column was NULL.</div>
</li>
<li class="level1"><div class="li"> Some failover properties were added.</div>
</li>
<li class="level1"><div class="li"> A regression with setMaxIdleTime() was fixed. After the timeout not all idle
connections were closed.</div>
</li>
<li class="level1"><div class="li"> PreparedStatement.setBigDecimal() has converted the value to BIGINT if there
are no decimal points. This is a regression since 6.07.</div>
</li>
<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>
</ul>
```

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</div>

<h3 id="changes-in-version-701-27-jun-2007">17.16. Changes in Version 7.01  (27. Jun 2007)</h3>
<div class="level3">
<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>
<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>

</div>

<h3 id="changes-in-version-702-13-sep-2007">17.17. Changes in Version 7.02  (13. Sep 2007)</h3>
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<div class="level3">
<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>

</div>

<h3 id="changes-in-version-703-6-mar-2008">17.18. Changes in Version 7.03  (6. Mar 2008)</h3>
<div class="level3">
<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 &#039;2007-10-19
10:20:30.000&#039;}&quot; returns a DATETIME and not a VARCHAR for SQL Server 7 or higher.</div>
</li>
<li class="level1"><div class="li"> A regression in CachedRowSource with data type NTEXT has produce an error
like &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"> <em>hostProcess</em> is supported as client property now. It returns the id
identifying the connection on the host. This property can also be seen in the system table <em>sysprocesses</em>.
It is also used for JDBC logging.</div>
</li>
<li class="level1"><div class="li"> 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;</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 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;</div>
</li>
<li class="level1"><div class="li"> Fix a bug with Windows NT authentication and SQL Server 2005.</div>
</li>
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<li class="level1"><div class="li"> Connection property resultSetType added.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-704-8-oct-2008">17.19. Changes in Version 7.04  (8. Oct 2008)</h3>
<div class="level3">
<ul>
<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>
</ul>

</div>
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<h3 id="changes-in-version-705-25-mar-2009">17.20. Changes in Version 7.05  (25. Mar 2009)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> Connection property resultSetType was not used for PreparedStatement and
CallableStatement.</div>
</li>
<li class="level1"><div class="li"> There could be a very rare exception &quot;You are tried to connect to SQL
Server 6.5 with the sql7 mode.&quot; with SQL Server 2005 when calling getConnection().</div>
</li>
<li class="level1"><div class="li"> Classes DTCDataSource4 and PDataSource4 were added for 100% JDBC 4.0
compliance.</div>
</li>
</ul>

</div>


<h3 id="changes-in-version-706-2-oct-2009">17.21. Changes in Version 7.06  (2. Oct 2009)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> Empty strings in CacheRowSet changed to null values after serialization.</div>
</li>
<li class="level1"><div class="li"> A very rare &quot;ArrayIndexOutOfBoundsException: Array index out of
range: 0&quot; on executeQuery() was fixed. It could occur with scrollable ResultSets if the table had no primary
key.</div>
</li>
<li class="level1"><div class="li"> The inactive timeout of the PoolManager is now reset with every method
call.</div>
</li>
<li class="level1"><div class="li"> The property fastbatch was added.</div>
</li>
<li class="level1"><div class="li"> A possible hanging in socket.skip() after a timeout or cancel was fixed.</div>
</li>
<li class="level1"><div class="li"> An endless loop in ResultSet.findColumn( String ) with empty column name
was fixed.</div>
</li>
<li class="level1"><div class="li"> Some NullPointerExceptions with setClientInfo and pooled Connection were
fixed.</div>
</li>
<li class="level1"><div class="li"> The error &quot;Unknown parameter datatype:-16 - null&quot; with
PreparedStatement.setNull(x,Types.LONGNVARCHAR) was fixed.</div>
</li>
<li class="level1"><div class="li"> Fixed the PreparedStatement.setNxxx methods for the protocol inetdae7a and
prepare=false.</div>
</li>
</ul>

</div>
```

```
<h3 id="changes-in-version-707-14-apr-2010">17.22. Changes in Version 7.07  (14. Apr 2010)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> Fixed some bugs in ParameterMetaData.</div>
</li>
<li class="level1"><div class="li"> Fixed a possible unnecessary cancel if an exception occurred on prepare or
execute.</div>
</li>
<li class="level1"><div class="li"> A wrong ResultSet type was returned if a fetch size was set on a forward-only
ResultSet.</div>
</li>
<li class="level1"><div class="li"> Fixed some bugs in setClientInfo(String,String) and optimized
performance.</div>
</li>
<li class="level1"><div class="li"> Removed the finalize() method from the Connection object.</div>
</li>
<li class="level1"><div class="li"> Fix a hanging of the finalizer thread in SSLSocketImpl.close() if an SSL
connection was lost and the default query timeout was unlimited.</div>
</li>
<li class="level1"><div class="li"> Statement.RETURN_GENERATED_KEYS disabled server-side prepare to
return the right values with triggers.</div>
</li>
<li class="level1"><div class="li"> Fixed the very rare exception &quot;java.io.FileNotFoundException:
//./pipe/sql/query (All pipe instances are busy)&quot; on getConnection().</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-708-15-oct-2010">17.23. Changes in Version 7.08  (15. Oct 2010)</h3>
<div class="level3">
<ul>
<li class="level1"><div class="li"> Statement.close() could produce a NPE on a running executeQuery() of the
same statement if you set max rows or max field size. If the NPE occurred, max row size and/or max field size were
not restored for the connection. The values affected all following calls of executeQuery() for this connection.</div>
</li>
<li class="level1"><div class="li"> A very rare deadlock could occur if a prepared query needed 60 seconds and a
second thread was running the same prepared query in this time.</div>
</li>
<li class="level1"><div class="li"> An ArrayIndexOutOfBoundsException in executeBatch() with fastbatch=true
was fixed. The exception occurred if you ran a transact SQL in the batch that did not produce an update
count.</div>
</li>
<li class="level1"><div class="li"> With SQL Server 2005 or higher, the first call of method rollback() did not work
correctly if the transaction was already rolled back from the SQL Server after a deadlock detection. The result was
that setAutoCommit(true) did not end the transaction. A second call to rollback() or commit() prevented
problems.</div>
```

```
</li>
<li class="level1"><div class="li"> A memory leak in the DTCProxy was fixed.</div>
</li>
<li class="level1"><div class="li"> Long-running XA transactions were rolled back after 10 minutes under very rare
conditions.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-800-23-mar-2011">17.24. Changes in Version 8.00  (23. Mar 2011)</h3>
<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 PreparedStaments. Now
it use server side prepare and no extra roundtrip to the database.</div>
</li>
</ul>

</div>

<h3 id="changes-in-version-801-26-oct-2011">17.25. Changes in Version 8.01  (26. Oct 2011)</h3>
<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>

<h3 id="changes-in-version-802-30-mar-2012">17.26. Changes in Version 8.02  (30. Mar 2012)</h3>
```

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

</div>

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

<h3 id="changes-in-version-804-2-oct-2013">17.28. Changes in Version 8.04  (2. Oct 2013)</h3>
<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>

<h3 id="changes-in-version-805-9-apr-2014">17.29. Changes in Version 8.05  (9. Apr 2014)</h3>
<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>

</div>

<h3 id="changes-in-version-806-15-apr-2015">17.30. Changes in Version 8.06 (15. Apr 2015)</h3>
<div class="level3">

<li class="level1"><div class="li"> Added support for VNN (virtual network names) together with instance names.</div>

<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 class="level1"><div class="li"> No longer write the password to the driver log.</div>

<li class="level1"><div class="li"> Add the interface NtlmHandshake to support an external NTLM login source.</div>

</div>

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lib/junit-3.8.1.jar

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ASF

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

dk.brics.automaton

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

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

Anders Moeller
amoeller@brics.dk

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

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src/plugin/clustering-carrot2/lib/violinstrings-1.0.2.jar

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src/plugin/clustering-carrot2/lib/carrot2-filter-lingo.jar
src/plugin/clustering-carrot2/lib/carrot2-snowball-stemmers.jar
src/plugin/clustering-carrot2/lib/carrot2-util-tokenizer.jar
src/plugin/clustering-carrot2/lib/carrot2-local-core.jar

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src/plugin/clustering-carrot2/lib/commons-collections-3.2.jar
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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src/plugin/parse-swf/lib/javaswf.jar

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src/plugin/response-json/lib/json-lib-2.2.2-jdk15.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/parse-pdf/lib/JempBox-0.2.0.jar

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src/plugin/parse-pdf/lib/bcprov-jdk14-132.jar

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

/*--

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

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*/

src/plugin/lib-xml/lib/jaxen-jdom.jar
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/*
$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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1.4 json 1.8.1

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1.10 spring-boot-starter-thymeleaf 2.0.4.RELEASE

1.11 spring-boot-starter-tomcat 2.0.4

1.12 spring-boot-starter-web 2.0.5.RELEASE

1.13 springfox-swagger-ui 2.8.0

1.14 springfox-swagger2 2.8.0