



## Open Source Used In WAE 7.0

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## 1.7 Java-netconf-client 0.0

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## 1.8 java-uuid-generator 3.1.0

## 1.9 jaxen 1.1.1

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```
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$Id: LICENSE.txt,v 1.5 2006/02/05 21:49:04 elharo Exp $
```

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The primary ANTLR guy:

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parrt@cs.usfca.edu  
parrt@antlr.org  
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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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Contributing Author(s):

Dave Raggett <dsr@w3.org>  
Andy Quick <ac.quick@sympatico.ca> (translation to Java)  
Gary L Peskin <garyp@firstech.com> (Java development)  
Sami Lempinen <sami@lempinen.net> (release management)

The contributing author(s) would like to thank all those who helped with testing, bug fixes, and patience. This wouldn't have been possible without all of you.

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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)  
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You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following



commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=252418>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

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The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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```
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```

The patch is available here:

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media-playback-pause.png  
media-playback-start.png  
process-stop.png  
redo.png (modified version of edit-redo.png)  
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Aleksey Gurtovoy (agurtovoy@meta-comm.com)  
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)  
Andrew Lumsdaine ()  
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)  
Beman Dawes (bdawes@acm.org)  
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)  
Brian Osman (osman -at- vvisions.com) (See CVS log)  
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)  
Bruno da Silva de Oliveira (bruno - at - esss.com.br)  
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)  
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)  
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)  
Dan Nuffer (dan -at- nuffer.name)  
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)  
Daniel Nuffer (dan -at- nuffer.name)  
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)  
Daryle Walker (darylew - at - hotmail.com)  
Dave Abrahams (dave@boost-consulting.com)  
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)  
David Abrahams (dave@boost-consulting.com)  
Dietmar Kuehl (dietmar\_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)  
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)  
Dr John Maddock (john - at - johnmaddock.co.uk)  
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)  
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)  
Eric Friedman (ebf@users.sourceforge.net)  
Eric Niebler (eric@boost-consulting.com)

Fernando Cacciola (fernando\_cacciola@ciudad.com.ar)  
Fernando Luis Cacciola Carballal (fernando\_cacciola@ciudad.com.ar)  
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)  
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)  
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)  
Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)  
Gottfried Ganaue (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)  
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)  
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)  
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)  
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)  
Herve Bronnimann (hbr -at- poly.edu)  
Herv Brnnimann (hbr -at- poly.edu)  
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)  
Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)  
Hubert Holin (hubert\_holin -at- users.sourceforge.net)  
Indiana University ()  
Itay Maman (imaman -at- users.sourceforge.net)  
Jaakko Jrv (jajarvi -at- osl.iu.edu)  
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)  
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)  
Jens Maurer (Jens.Maurer@gmx.net)  
Jeremy G Siek (jsiek@osl.iu.edu)  
Jeremy Siek (jsiek@osl.iu.edu)  
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)  
John Bandela (jbandela-at-ufl.edu)  
John Maddock (john - at - johnmaddock.co.uk)  
John R Bandela (jbandela-at-ufl.edu)  
Jonathan Turkanis (turkanis -at- coderage dot com)  
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)  
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)  
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)  
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)  
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)  
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)  
Mac Murrett (mmurrett -at- mac.com)  
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)  
Michael Glassford (glassfordm - at - hotmail.com)  
Michael Stevens (Michael.Stevens - at - epost.de)  
Multi Media Ltd. (pdimov@mmltd.net)  
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)  
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)  
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)  
Pavol Droba (droba -at- topmail.sk)  
Peter Dimov (pdimov@mmltd.net)  
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)

Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)  
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)  
Robert Ramey (ramey@www.rrsd.com)  
Roland Richter (roland -at- fill.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)  
Roland Schwarz (roland.schwarz -at- chello.at)  
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)  
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)  
Stefan Seefeld (seefeld -at- sympatico.ca)  
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)  
Steve Cleary (Variant of Stephen Cleary)  
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)  
The Trustees of Indiana University ()  
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)  
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William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)  
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the



garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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## 3.48 bootstrap-datepicker.js n/a

## 3.49 bootstrap-datetimepicker 0.0.11

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## 3.52 bowser.js 0.7.1

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Version 2.1, February 1999

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## 3.55 cglib-nodep 2.2

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## 3.74 datetimesticker 2.4.1

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* -----
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*
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*
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*
* This file defines helper functions for setting up the calendar. They are
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* than modifying calendar.js itself).
*/
```

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## 3.81 eclipse-emf 2.6.0

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## 3.88 FindBugs-jsr305 3.0.0

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AppleJavaExtensions

v 1.2

<http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html>

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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AppleJavaExtensions

v 1.2

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

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## 3.104 Graphviz 2.38

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Upstream Authors:

John Ellson, Lucent (TCL/tk and codegen extensions)  
Emden Gansner, AT&T Research (dot, neato)  
Eleftherios Koutsofios, AT&T Research (dotty, lefty, spline-o-matic)  
John Mocenigo, AT&T Research (Grappa)  
Stephen North, AT&T Research (dot, neato)  
Gordon Woodhull (Montage)  
and  
David Dobkin (spline-o-matic)  
Vladimir Alexiev (codegen improvements)

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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The primary ANTLR guy:

Terence Parr

parrt@cs.usfca.edu

parrt@antlr.org

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src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
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```

```
/*
```

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\* ASM 3.1

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\* Browser Detect v2.1.6

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Source code availability:

<http://google-web-toolkit.googlecode.com/svn/trunk/tools/benchmark-viewer/src/com/google/gwt/benchmarks/viewer/client/BrowserInfo.java>  
(transliterated into Java source)

\* Eclipse Java Development Tools (JDT)

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<http://www.eclipse.org/legal/epl-v10.html>

Source code availability:

<http://archive.eclipse.org/eclipse/downloads/drops/R-3.3.1-200709211145/download.php?dropFile=eclipse-JDT-SDK-3.3.1.zip>

\* Eclipse Standard Widget Toolkit (SWT)

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Source code availability:

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modifications are at `org/eclipse/swt/` within `gwt-dev.jar`

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<http://mortbay.org/jetty/>

\* JFreeChart

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Source code availability:

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Source code availability: `com/google/gwt/dev/js/rhino/` within `gwt-dev.jar`

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Source code availability:

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\* Protobuf

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Source code availability:

<http://code.google.com/p/protobuf/source/checkout>

Binary modifications consist of package-rebasing. The rebased classes are rooted at `com/google/gwt/dev/protobuf/` within `gwt-dev.jar`

The files in this package are taken from mozilla's Rhino project.

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The files modified from Rhino 1.5R3  
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## 3.130 hibernate-validator 4.1.0.Final

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## 3.147 httpmime 4.1.2

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(1)

ExceptionConverter:

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Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in

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(3)

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

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com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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```

```
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Ty Coon, President of Vice
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That's all there is to it!

```
/* Jackson JSON-processor.
```

```
*
```

```
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```

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*
```

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## 3.152 jackson-jaxrs 1.9.9

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## 3.154 jackson-mapper-asl 1.9.0

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## 3.157 jackson-mapper-asl 1.4.0.

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com/lowagie/text/pdf/codec/TIFFLZWDecoder.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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The main difference can be found in the final paragraph: the restriction that the source code is not "licensed" in this particular situation has been removed.

FYI: Brian also added: "A bit of history might be in order.

The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI.

As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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(5)

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

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

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

therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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- 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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Office Open XML schemas (ooxml-schemas-1.0.jar)

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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The primary ANTLR guy:

Terence Parr

[parrt@cs.usfca.edu](mailto:parrt@cs.usfca.edu)

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The primary ANTLR guy:

Terence Parr  
parr@cs.usfca.edu  
parr@antlr.org  
/\*  
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## 3.167 javassist 3.12.0GA

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# 3.174 jaxrs-api 2.3.6 :Final

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

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

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 3.179 JCommon 1.0.16

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

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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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```
*/
```

```
package org.jdom;
```

```
/**
```

```
* An XML comment. Methods allow the user to get and set the text of the  
* comment.
```

```
*
```

```
* @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
```

```
* @author Brett McLaughlin
```

```
* @author Jason Hunter
```

```
*/
```

```
public class Comment extends Content {
```

```
    private static final String CVS_ID =
```

```
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";
```

```
    /** Text of the Comment */
```

```
    protected String text;
```

```
    /**
```

```
     * Default, no-args constructor for implementations to use if needed.
```

```
     */
```

```
    protected Comment() {}
```

```
    /**
```

```
     * This creates the comment with the supplied text.
```

```
     *
```

```
     * @param text String content of comment.
```

```
     */
```

```
    public Comment(String text) {
```

```
        setText(text);
```

```
    }
```

```
    /**
```

```
     * Returns the XPath 1.0 string value of this element, which is the
```

```
     * text of this comment.
```

```
     *
```

```
     * @return the text of this comment
```

```
     */
```

```
    public String getValue() {
```

```
        return text;
```

```
    }
```

```
    /**
```



```

* This returns the textual data within the <code>Comment</code>.
*
* @return <code>String</code> - text of comment.
*/
public String getText() {
    return text;
}

/**
* This will set the value of the <code>Comment</code>.
*
* @param text <code>String</code> text for comment.
* @return <code>Comment</code> - this Comment modified.
* @throws IllegalArgumentException if the given text is illegal for a
*     Comment.
*/
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalArgumentException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
* This returns a <code>String</code> representation of the
* <code>Comment</code>, suitable for debugging. If the XML
* representation of the <code>Comment</code> is desired,
* { @link org.jdom.output.XMLOutputter#outputString(Comment)}
* should be used.
*
* @return <code>String</code> - information about the
*     <code>Attribute</code>
*/
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}

```

# 3.184 jdt-compiler 3.1.1

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May 11, 2006

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# 3.185 jersey-bundle 1.17.1

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## 3.186 jersey-core 1.17.1

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

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

especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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## 3.192 JFreeChart 1.0.13

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## 3.193 JGroups 2.6.13 :GA

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The primary ANTLR guy:

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parrt@cs.usfca.edu

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```

```
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That's all there is to it!

```
/*
```

```
File: Core.js
```

```
Description:
```

```
Provides common utility functions and the Class object used internally by the library.
```

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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1.1.2

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 * jQuery JavaScript Library v1.6.2
 * http://jquery.com/
 *
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 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
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 *
 * Date: Thu Jun 30 14:16:56 2011 -0400
 */
```

## 3.200 jQuery JavaScript Library 1.7.1

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 *
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 *
 * Includes Sizzle.js
```

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\*  
\* Date: Mon Nov 21 21:11:03 2011 -0500  
\*/  
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```
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* Git HEAD hash: 528cf0e96940644ea644096bfeb913ed920ffaef <> Date: Fri Jul 19 2013 22:17:57 UTC  
* http://jquerymobile.com  
*  
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 *
 * http://docs.jquery.com/UI
 */
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Brandon Aaron  
Paul Bakaus ([paulbakaus.com](http://paulbakaus.com))  
David Bolter  
Rich Caloggero  
Chi Cheng ([cloudream@gmail.com](mailto:cloudream@gmail.com))  
Colin Clark (<http://colin.atrc.utoronto.ca/>)  
Michelle D'Souza  
Aaron Eisenberger ([aaronchi@gmail.com](mailto:aaronchi@gmail.com))  
Ariel Flesler  
Bohdan Ganicky  
Scott Gonzlez

Marc Grabanski (m@marcgrabanski.com)  
Klaus Hartl (stilbuero.de)  
Scott Jehl  
Cody Lindley  
Eduardo Lundgren (eduardolundgren@gmail.com)  
Todd Parker  
John Resig  
Patty Toland  
Ca-Phun Ung (yelotofu.com)  
Keith Wood (kbwood@virginbroadband.com.au)  
Maggie Costello Wachs  
Richard D. Worth (rdworth.org)  
Jrn Zaefferer (bassistance.de)  
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Brandon Aaron

Paul Bakaus ([paulbakaus.com](http://paulbakaus.com))

David Bolter

Rich Caloggero

Chi Cheng ([cloudream@gmail.com](mailto:cloudream@gmail.com))

Colin Clark (<http://colin.atrc.utoronto.ca/>)

Michelle D'Souza

Aaron Eisenberger ([aaronchi@gmail.com](mailto:aaronchi@gmail.com))

Ariel Flesler

Bohdan Ganicky

Scott Gonzalez

Marc Grabanski ([m@marcgrabanski.com](mailto:m@marcgrabanski.com))

Klaus Hartl ([stilbuero.de](http://stilbuero.de))

Scott Jehl

Cody Lindley

Eduardo Lundgren ([eduardolundgren@gmail.com](mailto:eduardolundgren@gmail.com))

Todd Parker

John Resig

Patty Toland

Ca-Phun Ung ([yelotofu.com](http://yelotofu.com))

Keith Wood ([kbwood@virginbroadband.com.au](mailto:kbwood@virginbroadband.com.au))

Maggie Costello Wachs

Richard D. Worth ([rdworth.org](http://rdworth.org))

Jrn Zaefferer ([bassistance.de](http://bassistance.de))

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## 3.209 jquery.cookie 1.3.1

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/\*!

\* jQuery Cookie Plugin v1.3.1

\* <https://github.com/carhartl/jquery-cookie>

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\*

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 * Date: 3/25/2009
 * @author Ariel Flesler
 * @version 1.0.8
 */
```

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*/
```

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## 3.224 Junit 4.8.

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## 3.225 junit 4.11 4.11

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## 3.237 Logstash\_jruby 1.4.2

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The snowball stemmers in `contrib/snowball/src/java/net/sf/snowball` were developed by Martin Porter and Richard Boulton. The full snowball package is available from <http://snowball.tartarus.org/>

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Includes `lib/servlet-api-2.4.jar` from Apache Tomcat

The `SmartChineseAnalyzer` source code (under `contrib/analyzers`) was provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

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## 3.246 Lucene Spellchecker 2.9.1

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 */
package net.oauth;

import java.io.IOException;
import java.net.URISyntaxException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;
import net.oauth.signature.OAuthSignatureMethod;

//TODO: move this class into oauth-provider
/**
```



```

* A simple OAuthValidator, which checks the version, whether the timestamp is
* close to now, the nonce hasn't been used before and the signature is valid.
* Each check may be overridden.
* <p>
* This implementation is less than industrial strength:
* <ul>
* <li>Duplicate nonces won't be reliably detected by a service provider running
* in multiple processes, since the used nonces are stored in memory.</li>
* <li>The collection of used nonces is a synchronized choke point</li>
* <li>The used nonces may occupy lots of memory, although you can minimize this
* by calling releaseGarbage periodically.</li>
* <li>The range of acceptable timestamps can't be changed, and there's no
* system for increasing the range smoothly.</li>
* <li>Correcting the clock backward may allow duplicate nonces.</li>
* </ul>
* For a big service provider, it might be better to store used nonces in a
* database.
*
* @author Dirk Balfanz
* @author John Kristian
*/

```

```

public class SimpleOAuthValidator implements OAuthValidator {

    /** The default maximum age of timestamps is 5 minutes. */
    public static final long DEFAULT_MAX_TIMESTAMP_AGE = 5 * 60 * 1000L;
    public static final long DEFAULT_TIMESTAMP_WINDOW = DEFAULT_MAX_TIMESTAMP_AGE;

    /**
     * Names of parameters that may not appear twice in a valid message.
     * This limitation is specified by OAuth Core <a
     * href="http://oauth.net/core/1.0#anchor7">section 5</a>.
     */
    public static final Set<String> SINGLE_PARAMETERS = constructSingleParameters();

    private static Set<String> constructSingleParameters() {
        Set<String> s = new HashSet<String>();
        for (String p : new String[] { OAuth.OAUTH_CONSUMER_KEY, OAuth.OAUTH_TOKEN,
        OAuth.OAUTH_TOKEN_SECRET,
        OAuth.OAUTH_CALLBACK, OAuth.OAUTH_SIGNATURE_METHOD,
        OAuth.OAUTH_SIGNATURE, OAuth.OAUTH_TIMESTAMP,
        OAuth.OAUTH_NONCE, OAuth.OAUTH_VERSION }) {
            s.add(p);
        }
        return Collections.unmodifiableSet(s);
    }

    /**
     * Construct a validator that rejects messages more than five minutes old or

```

```

* with a OAuth version other than 1.0.
*/
public SimpleOAuthValidator() {
    this(DEFAULT_TIMESTAMP_WINDOW, Double.parseDouble(OAuth.VERSION_1_0));
}

/**
 * Public constructor.
 *
 * @param maxTimestampAgeMsec
 *     the range of valid timestamps, in milliseconds into the past
 *     or future. So the total range of valid timestamps is twice
 *     this value, rounded to the nearest second.
 * @param maxVersion
 *     the maximum valid oauth_version
 */
public SimpleOAuthValidator(long maxTimestampAgeMsec, double maxVersion) {
    this.maxTimestampAgeMsec = maxTimestampAgeMsec;
    this.maxVersion = maxVersion;
}

protected final double minVersion = 1.0;
protected final double maxVersion;
protected final long maxTimestampAgeMsec;
private final Set<UsedNonce> usedNonces = new TreeSet<UsedNonce>();

/**
 * Allow objects that are no longer useful to become garbage.
 *
 * @return the earliest point in time at which another call will release
 *     some garbage, or null to indicate there's nothing currently
 *     stored that will become garbage in future. This value may change,
 *     each time releaseGarbage or validateNonce is called.
 */
public Date releaseGarbage() {
    return removeOldNonces(currentTimeMsec());
}

/**
 * Remove usedNonces with timestamps that are too old to be valid.
 */
private Date removeOldNonces(long currentTimeMsec) {
    UsedNonce next = null;
    UsedNonce min = new UsedNonce((currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L);
    synchronized (usedNonces) {
        // Because usedNonces is a TreeSet, its iterator produces
        // elements from oldest to newest (their natural order).
        for (Iterator<UsedNonce> iter = usedNonces.iterator(); iter.hasNext();) {

```

```

        UsedNonce used = iter.next();
        if (min.compareTo(used) <= 0) {
            next = used;
            break; // all the rest are also new enough
        }
        iter.remove(); // too old
    }
}
if (next == null)
    return null;
return new Date((next.getTimestamp() * 1000L) + maxTimestampAgeMsec + 500);
}

/** {@inherit}
 * @throws URISyntaxException */
public void validateMessage(OAuthMessage message, OAuthAccessor accessor)
throws OAuthException, IOException, URISyntaxException {
    checkSingleParameters(message);
    validateVersion(message);
    validateTimestampAndNonce(message);
    validateSignature(message, accessor);
}

/** Throw an exception if any SINGLE_PARAMETERS occur repeatedly. */
protected void checkSingleParameters(OAuthMessage message) throws IOException, OAuthException {
    // Check for repeated oauth_ parameters:
    boolean repeated = false;
    Map<String, Collection<String>> nameToValues = new HashMap<String, Collection<String>>();
    for (Map.Entry<String, String> parameter : message.getParameters()) {
        String name = parameter.getKey();
        if (SINGLE_PARAMETERS.contains(name)) {
            Collection<String> values = nameToValues.get(name);
            if (values == null) {
                values = new ArrayList<String>();
                nameToValues.put(name, values);
            } else {
                repeated = true;
            }
            values.add(parameter.getValue());
        }
    }
    if (repeated) {
        Collection<OAuth.Parameter> rejected = new ArrayList<OAuth.Parameter>();
        for (Map.Entry<String, Collection<String>> p : nameToValues.entrySet()) {
            String name = p.getKey();
            Collection<String> values = p.getValue();
            if (values.size() > 1) {
                for (String value : values) {

```

```

        rejected.add(new OAuth.Parameter(name, value));
    }
}
}
    OAuthProblemException problem = new
OAuthProblemException(OAuth.Problems.PARAMETER_REJECTED);
    problem.setParameter(OAuth.Problems.OAUTH_PARAMETERS_REJECTED,
OAuth.formEncode(rejected));
    throw problem;
}
}

protected void validateVersion(OAuthMessage message)
throws OAuthException, IOException {
    String versionString = message.getParameter(OAuth.OAUTH_VERSION);
    if (versionString != null) {
        double version = Double.parseDouble(versionString);
        if (version < minVersion || maxVersion < version) {
            OAuthProblemException problem = new
OAuthProblemException(OAuth.Problems.VERSION_REJECTED);
            problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_VERSIONS, minVersion + "-" +
maxVersion);
            throw problem;
        }
    }
}

/**
 * Throw an exception if the timestamp is out of range or the nonce has been
 * validated previously.
 */
protected void validateTimestampAndNonce(OAuthMessage message)
throws IOException, OAuthProblemException {
    message.requireParameters(OAuth.OAUTH_TIMESTAMP, OAuth.OAUTH_NONCE);
    long timestamp = Long.parseLong(message.getParameter(OAuth.OAUTH_TIMESTAMP));
    long now = currentTimeMsec();
    validateTimestamp(message, timestamp, now);
    validateNonce(message, timestamp, now);
}

/** Throw an exception if the timestamp [sec] is out of range. */
protected void validateTimestamp(OAuthMessage message, long timestamp, long currentTimeMsec) throws
IOException,
    OAuthProblemException {
    long min = (currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L;
    long max = (currentTimeMsec + maxTimestampAgeMsec + 500) / 1000L;
    if (timestamp < min || max < timestamp) {
        OAuthProblemException problem = new

```

```

OAuthProblemException(OAuth.Problems.TIMESTAMP_REFUSED);
    problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_TIMESTAMPS, min + "-" + max);
    throw problem;
}
}

/**
 * Throw an exception if the nonce has been validated previously.
 *
 * @return the earliest point in time at which a call to releaseGarbage
 * will actually release some garbage, or null to indicate there's
 * nothing currently stored that will become garbage in future.
 */
protected Date validateNonce(OAuthMessage message, long timestamp, long currentTimeMsec) throws
IOException,
    OAuthProblemException {
    UsedNonce nonce = new UsedNonce(timestamp,
        message.getParameter(OAuth.OAUTH_NONCE), message.getConsumerKey(), message.getToken());
    /**
     * The OAuth standard requires the token to be omitted from the stored
     * nonce. But I include it, to harmonize with a Consumer that generates
     * nonces using several independent computers, each with its own token.
     */
    boolean valid = false;
    synchronized (usedNonces) {
        valid = usedNonces.add(nonce);
    }
    if (!valid) {
        throw new OAuthProblemException(OAuth.Problems.NONCE_USED);
    }
    return removeOldNonces(currentTimeMsec);
}

protected void validateSignature(OAuthMessage message, OAuthAccessor accessor)
throws OAuthException, IOException, URISyntaxException {
    message.requireParameters(OAuth.OAUTH_CONSUMER_KEY,
        OAuth.OAUTH_SIGNATURE_METHOD, OAuth.OAUTH_SIGNATURE);
    OAuthSignatureMethod.newSigner(message, accessor).validate(message);
}

/** Get the number of milliseconds since midnight, January 1, 1970 UTC. */
protected long currentTimeMsec() {
    return System.currentTimeMillis();
}

/**
 * Selected parameters from an OAuth request, in a form suitable for
 * detecting duplicate requests. The implementation is optimized for the

```

```

* comparison operations (compareTo, equals and hashCode).
*
* @author John Kristian
*/
private static class UsedNonce implements Comparable<UsedNonce> {
    /**
     * Construct an object containing the given timestamp, nonce and other
     * parameters. The order of parameters is significant.
     */
    UsedNonce(long timestamp, String... nonceEtc) {
        StringBuilder key = new StringBuilder(String.format("%20d", Long.valueOf(timestamp)));
        // The blank padding ensures that timestamps are compared as numbers.
        for (String etc : nonceEtc) {
            key.append("&").append(etc == null ? " " : OAuth.percentEncode(etc));
            // A null value is different from "" or any other String.
        }
        sortKey = key.toString();
    }

    private final String sortKey;

    long getTimestamp() {
        int end = sortKey.indexOf("&");
        if (end < 0)
            end = sortKey.length();
        return Long.parseLong(sortKey.substring(0, end).trim());
    }

    /**
     * Determine the relative order of <code>this</code> and
     * <code>that</code>, as specified by Comparable. The timestamp is most
     * significant; that is, if the timestamps are different, return 1 or
     * -1. If <code>this</code> contains only a timestamp (with no nonce
     * etc.), return -1 or 0. The treatment of the nonce etc. is murky,
     * although 0 is returned only if they're all equal.
     */
    public int compareTo(UsedNonce that) {
        return (that == null) ? 1 : sortKey.compareTo(that.sortKey);
    }

    @Override
    public int hashCode() {
        return sortKey.hashCode();
    }

    /**
     * Return true iff <code>this</code> and <code>that</code> contain equal
     * timestamps, nonce etc., in the same order.

```

```

*/
@Override
public boolean equals(Object that) {
    if (that == null)
        return false;
    if (that == this)
        return true;
    if (that.getClass() != getClass())
        return false;
    return sortKey.equals(((UsedNonce) that).sortKey);
}

@Override
public String toString() {
    return sortKey;
}
}
}
}

```

## 3.260 openid4java 0.9.4

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## 3.261 openssl 1.0.1i

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

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```

/* crypto/aes/aes_wrap.c */
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
 * project.
 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */
/* =====
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## 3.264 org.restlet 2.0.9

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## 3.265 org.restlet.example 2.0.9

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## 3.267 org.restlet.ext.atom 2.0.9

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## 3.268 org.restlet.ext.crypto 2.1.0

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## 3.269 org.restlet.ext.crypto 2.0.9

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## 3.272 org.restlet.ext.fileupload 2.0.9

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## 3.273 org.restlet.ext.freemaker 2.0.9

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## 3.275 org.restlet.ext.gwt 2.0.9

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## 3.276 org.restlet.ext.gwt 2.1.0

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## 3.277 org.restlet.ext.html 2.1.0

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## 3.278 org.restlet.ext.httpclient 2.0.9



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## 3.280 org.restlet.ext.jaas 2.0.9

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## 3.281 org.restlet.ext.jaas 2.1.0

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## 3.284 org.restlet.ext.javamail 2.1.0

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## 3.285 org.restlet.ext.javamail 2.0.9

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## 3.286 org.restlet.ext.jaxb 2.1.0

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## 3.287 org.restlet.ext.jaxb 2.0.9

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## 3.288 org.restlet.ext.jaxrs 2.1.0

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## 3.290 org.restlet.ext.jdbc 2.0.9

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## 3.293 org.restlet.ext.jibx 2.1.0

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## 3.294 org.restlet.ext.jibx 2.0.9

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## 3.295 org.restlet.ext.json 2.0.9

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## 3.296 org.restlet.ext.json 2.1.0

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## 3.297 org.restlet.ext.lucene 2.0.9

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## 3.302 org.restlet.ext.odata 2.1.0

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## 3.305 org.restlet.ext.rdf 2.1.0

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## 3.306 org.restlet.ext.rdf 2.0.9

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## 3.308 org.restlet.ext.rome 2.0.9

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## 3.309 org.restlet.ext.sdc 2.1.0

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## 3.311 org.restlet.ext.simple 2.1.0

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## 3.312 org.restlet.ext.sip 2.1.0

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## 3.314 org.restlet.ext.slf4j 2.0.9

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## 3.315 org.restlet.ext.spring 2.1.0

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## 3.316 org.restlet.ext.spring 2.0.9

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## 3.317 org.restlet.ext.ssl 2.0.9

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## 3.318 org.restlet.ext.ssl 2.1.0

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## 3.319 org.restlet.ext.velocity 2.1.0

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## 3.320 org.restlet.ext.velocity 2.0.9

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## 3.321 org.restlet.ext.wadl 2.0.9

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## 3.323 org.restlet.ext.xdb 2.0.9

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## 3.324 org.restlet.ext.xml 2.1.0

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## 3.326 org.restlet.ext.xstream 2.1.0

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## 3.327 org.restlet.ext.xtream 2.0.9

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## 3.329 org.simpleframework / simple 4.1

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# 3.330 overlib 4.21

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## 3.331 persistence-api 1.0

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/* *
/* * This library's function is primarily to read and display MNG * */
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/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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

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

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```
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```

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```
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```

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```

```
<signature of Ty Coon>, 1 April 1989  
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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

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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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common\_audio/signal\_processing/spl\_sqrt\_floor.c

common\_audio/signal\_processing/spl\_sqrt\_floor\_arm.S  
modules/audio\_coding/codecs/g711/main/source/g711.c  
modules/audio\_coding/codecs/g711/main/source/g711.h  
modules/audio\_coding/codecs/g722/main/source/g722\_decode.c  
modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
modules/audio\_coding/codecs/g722/main/source/g722\_encode.c  
modules/audio\_coding/codecs/isac/main/source/fft.c  
modules/audio\_device/mac/portaudio/pa\_memorybarrier.h  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.h  
modules/audio\_processing/aec/aec\_rdfc.c  
modules/audio\_processing/utility/fft4g.c  
system\_wrappers/interface/scoped\_ptr.h  
system\_wrappers/source/condition\_variable\_event\_win.cc  
system\_wrappers/source/set\_thread\_name\_win.h  
system\_wrappers/source/spreadsortlib/constants.hpp  
system\_wrappers/source/spreadsortlib/spreadsort.hpp

Individual licenses for each file:

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Files:

common\_audio/signal\_processing/spl\_sqrt\_floor.c  
common\_audio/signal\_processing/spl\_sqrt\_floor\_arm.S

License:

/\*

\* Written by Wilco Dijkstra, 1996. The following email exchange establishes the  
\* license.

\*

\* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

\* Date: Fri, Jun 24, 2011 at 3:20 AM

\* Subject: Re: sqrt routine

\* To: Kevin Ma <kma@google.com>

\* Hi Kevin,

\* Thanks for asking. Those routines are public domain (originally posted to  
\* comp.sys.arm a long time ago), so you can use them freely for any purpose.

\* Cheers,

\* Wilco

\*

\* ----- Original Message -----

\* From: "Kevin Ma" <kma@google.com>

\* To: <Wilco.Dijkstra@ntlworld.com>

\* Sent: Thursday, June 23, 2011 11:44 PM

\* Subject: Fwd: sqrt routine

\* Hi Wilco,

\* I saw your sqrt routine from several web sites, including

\* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

\* Just wonder if there's any copyright information with your Successive

\* approximation routines, or if I can freely use it for any purpose.  
\* Thanks.  
\* Kevin  
\*/

-----  
Files:

modules/audio\_coding/codecs/g711/main/source/g711.c  
modules/audio\_coding/codecs/g711/main/source/g711.h

License:

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\* SpanDSP - a series of DSP components for telephony  
\*  
\* g711.h - In line A-law and u-law conversion routines  
\*  
\* Written by Steve Underwood <steveu@coppice.org>  
\*  
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modules/audio\_coding/codecs/g722/main/source/g722\_decode.c  
modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
modules/audio\_coding/codecs/g722/main/source/g722\_encode.c

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\*  
\* Written by Steve Underwood <steveu@coppice.org>  
\*  
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\* Based in part on a single channel G.722 codec which is:  
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\* Copyright (c) CMU 1993

\* Computer Science, Speech Group  
\* Chengxiang Lu and Alex Hauptmann  
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Files:

modules/audio\_coding/codecs/isac/main/source/fft.c

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\* It is also implicitly understood that bug fixes and improvements  
\* should make their way back to the general Internet community so  
\* that everyone benefits.  
\*/

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Files:

modules/audio\_device/mac/portaudio/pa\_memorybarrier.h  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
modules/audio\_device/mac/portaudio/pa\_ringbuffer.h

License:

/\*  
\* \$Id: pa\_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$  
\* Portable Audio I/O Library  
\* Memory barrier utilities  
\*  
\* Author: Bjorn Roche, XO Audio, LLC  
\*  
\* This program uses the PortAudio Portable Audio Library.

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\*/  
  
/\*  
\* \$Id: pa\_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$  
\* Portable Audio I/O Library  
\* Ring Buffer utility.  
\*  
\* Author: Phil Burk, <http://www.softsynth.com>  
\* modified for SMP safety on Mac OS X by Bjorn Roche  
\* modified for SMP safety on Linux by Leland Lucius  
\* also, allowed for const where possible  
\* modified for multiple-byte-sized data elements by Sven Fischer  
\*  
\* Note that this is safe only for a single-thread reader and a  
\* single-thread writer.  
\*  
\*/



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modules/audio\_processing/utility/fft4g.c

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// See http://www.boost.org/libs/smart\_ptr/scoped\_ptr.htm for documentation.  
//
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-----  
Files:

system\_wrappers/source/condition\_variable\_event\_win.cc

Source:

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system\_wrappers/source/set\_thread\_name\_win.h

Source:

<http://msdn.microsoft.com/en-us/cc300389.aspx#P>

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system\_wrappers/source/spreadsortlib/spreadsort.hpp

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```

```
%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
## Dependency rules
```

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[-s $@ ] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[-s $@ ] || rm -f $@'
```

```
## Versioned libraries rules
```

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

```
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```

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Samba temporary memory allocation functions

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Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
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Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
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Pasi Valminen <pasi.valminen@gmail.com>

Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
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Russ Cox <rsc@google.com>  
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Authors: Loren Merritt <lorenm@u.washington.edu>

Anton Mitrofanov <BugMaster@narod.ru>

Jason Garrett-Glaser <darkshikari@gmail.com>

Henrik Gramner <hengar-6@student.ltu.se>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Dr. Memory: the memory debugger
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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston bje at cygnus dot com

- Initiated the project;
- setup the project infrastructure (CVS, web page, etc.);
- early prototype routines.

Ross Johnson rpj at callisto dot canberra dot edu dot au

- early prototype routines;
- ongoing project coordination/maintenance;
- implementation of spin locks and barriers;
- various enhancements;
- bug fixes;
- documentation;
- testsuite.

Robert Colquhoun rjc at trump dot net dot au

- Early bug fixes.

John E. Bossom John dot Bossom at cognos dot com

- Contributed substantial original working implementation;
- bug fixes;
- ongoing guidance and standards interpretation.

Anders Norlander anorland at hem2 dot passagen dot se

- Early enhancements and runtime checking for supported Win32 routines.

Tor Lillqvist tml at iki dot fi

- General enhancements;
- early bug fixes to condition variables.

Scott Lightner scott at curriculum dot com

- Bug fix.

Kevin Ruland Kevin dot Ruland at anheuser-busch dot com

Various bug fixes.  
Mike Russo miker at eai dot com  
Bug fix.  
Mark E. Armstrong avail at pacbell dot net  
Bug fixes.  
Lorin Hochstein lmh at xiphos dot ca  
general bug fixes; bug fixes to condition variables.  
Peter Slacik Peter dot Slacik at tatramed dot sk  
Bug fixes.  
Mumit Khan khan at xraylith dot wisc dot edu  
Fixes to work with Mingw32.  
Milan Gardian mg at tatramed dot sk  
Bug fixes and reports/analyses of obscure problems.  
Aurelio Medina aureliom at crt dot com  
First implementation of read-write locks.  
Graham Dumbleton Graham dot Dumbleton at ra dot pad dot otc dot telstra dot com dot au  
Bug fix in condition variables.  
Tristan Savatier tristan at mpegv dot com  
WinCE port.  
Erik Hensema erik at hensema dot xs4all dot nl  
Bug fixes.  
Rich Peters rpeters at micro-magic dot com  
Todd Owen towen at lucidcalm dot dropbear dot id dot au  
Bug fixes to dll loading.  
Jason Nye jnye at nbnet dot nb dot ca  
Implementation of async cancelation.  
Fred Forester fforest at eticomm dot net  
Kevin D. Clark kclark at cabletron dot com  
David Baggett dmb at itasoftware dot com  
Bug fixes.  
Paul Redondo paul at matchvision dot com  
Scott McCaskill scott at 3dfx dot com  
Bug fixes.  
Jef Gearhart jgearhart at tpssys dot com  
Bug fix.  
Arthur Kantor akantor at bexusa dot com  
Mutex enhancements.  
Steven Reddie smr at essemmer dot com dot au  
Bug fix.  
Alexander Terekhov TEREKHOV at de dot ibm dot com  
Re-implemented and improved read-write locks;  
(with Louis Thomas) re-implemented and improved  
condition variables;  
enhancements to semaphores;  
enhancements to mutexes;  
new mutex implementation in 'futex' style;  
suggested a robust implementation of pthread\_once  
similar to that implemented by V.Kliathcko;



system clock change handling re CV timeouts;  
bug fixes.

Thomas Pfaff `tpfaff at gmx dot net`  
Changes to make C version usable with C++ applications;  
re-implemented mutex routines to avoid Win32 mutexes  
and `TryEnterCriticalSection`;  
procedure to fix Mingw32 thread-safety issues.

Franco Bez `franco dot bez at gmx dot de`  
procedure to fix Mingw32 thread-safety issues.

Louis Thomas `lthomas at arbitrade dot com`  
(with Alexander Terekhov) re-implemented and improved  
condition variables.

David Korn `dgk at research dot att dot com`  
Ported to UWIN.

Phil Frisbie, Jr. `phil at hawksoft dot com`  
Bug fix.

Ralf Brese `Ralf dot Brese at pdb4 dot siemens dot de`  
Bug fix.

`prionx at junodotcom` `prionx at junodotcom`  
Bug fixes.

Max Woodbury `mtew at cds dot duke dot edu`  
POSIX versioning conditionals;  
reduced namespace pollution;  
idea to separate routines to reduce statically  
linked image sizes.

Rob Fanner `rfanner at stonethree dot com`  
Bug fix.

Michael Johnson `michaelj at maine dot rr dot com`  
Bug fix.

Nicolas Barry `boozai at yahoo dot com`  
Bug fixes.

Piet van Bruggen `pietvb at newbridges dot nl`  
Bug fix.

Makoto Kato `raven at oldskool dot jp`  
AMD64 port.

Panagiotis E. Hadjidoukas `peh at hpclab dot ceid dot upatras dot gr`  
Contributed the `QueueUserAPCEx` package which  
makes preemptive async cancelation possible.

Will Bryant `will dot bryant at ecosm dot com`  
Borland compiler patch and makefile.

Anuj Goyal `anuj dot goyal at gmail dot com`  
Port to Digital Mars compiler.

Gottlob Frege `gottlobfrege at gmail dot com`  
re-implemented `pthread_once` (version 2)  
(`pthread_once` cancellation added by rpj).

Vladimir Kliatchko `vladimir at kliatchko dot com`  
reimplemented `pthread_once` with the same form  
as described by A.Terekhov (later version 2);

implementation of MCS (Mellor-Crummey/Scott) locks.

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>

Frank Yellin

Neal Norwitz <nnorwitz@google.com>

Jeffrey Yasskin <jyasskin@google.com>

Ambrose Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

- \* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <proppy@aminche.com>

- \* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

- \* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

- \* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

- \* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

- \* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- \* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- \* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

- \* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

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Daniel Nicoara  
Alastair Patrick



Alok Priyadarshi  
Kenneth Russell  
Brian Salomon  
Gregg Tavares  
Jeff Timanus  
Ben Vanik  
Adrienne Walker  
thestig@chromium.org  
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Russ Cox <rsc@swtch.com>
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Specifically, the GPL parts of FFmpeg are

- libpostproc
- libmpcodecs
- optional x86 optimizations in the files  
libavcodec/x86/idct\_mmx.c
- libutvideo encoding/decoding wrappers in  
libavcodec/libutvideo\*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in  
libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f\_ebur128.c
  - vf\_blackframe.c
  - vf\_boxblur.c
  - vf\_colormatrix.c
  - vf\_cropdetect.c
  - vf\_decimate.c
  - vf\_delogo.c
  - vf\_geq.c
  - vf\_histeq.c
  - vf\_hqdn3d.c
  - vf\_kerndeint.c
  - vf\_mcdeint.c
  - vf\_mp.c
  - vf\_owdenoise.c
  - vf\_perspective.c
  - vf\_phase.c
  - vf\_pp.c
  - vf\_pullup.c
  - vf\_sab.c
  - vf\_smartblur.c
  - vf\_spp.c

- vf\_stereo3d.c
- vf\_super2xsai.c
- vf\_tinterlace.c
- vsrc\_mptestsrc.c

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There are a handful of files under other licensing terms, namely:

\* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from `libjpeg`, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

external libraries

=====

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries

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The following libraries are under GPL:

- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

incompatible libraries

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The Fraunhofer AAC library, FAAC and aacplus are under licenses which are incompatible with the GPLv2 and v3. We do not know for certain if their licenses are compatible with the LGPL.

If you wish to enable these libraries, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable. pyelftools is in the public domain (see below if you need more details).

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Benoit Sigoure <tsuna@google.com>  
Bogdan Pilocca <boo@google.com>  
Chandler Carruth <chandlerc@google.com>  
Dave MacLachlan <dmaclach@gmail.com>  
David Anderson <danderson@google.com>

Dean Sturtevant  
Gene Volovich <gv@cite.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kostya Serebryany <kcc@google.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotr@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Wolfgang Klier <wklier@google.com>  
Zhanyong Wan <wan@google.com>

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That's all there is to it!  
PCRE is a library of functions to support regular expressions whose syntax  
and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library  
started out as a copy of PCRE, many of the features of PCRE have been  
removed.

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Ulrik Persson (ddefrostt)  
Mark Banner (standard8mbp)  
David Kilzer

# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean Mcafee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>

Vlad Losev <vladl@google.com>  
Zhanyong Wan <wan@google.com>  
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Yes!

### 4. Can I change or add to the font(s)?

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### 5. Under what terms are derivative works allowed?

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### 6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

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design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

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2006-Jan-27

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Our home page can be found at

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```



```

/* * inclusion of support for JNG and Full-Color-Management respectively. * */
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/* * This library's function is primarily to read and display MNG * */
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/* * at the chunk level. * */
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/* *
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```
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Version 3, 29 June 2007

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## 3.341 raphael 2.0.0



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## 3.352 resteasy-jackson-provider 2.3.4.Final

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

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

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

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

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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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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## 3.356 resteasy-jaxrs 2.3.6.Final

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is



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

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a) 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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## 3.371 saaj-api 1.3

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Mark James

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*****/
package org.sonatype.guice.bean.locators;

import org.sonatype.guice.bean.reflect.DeferredProvider;

import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * { @link BindingTargetVisitor } that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
    extends DefaultBindingTargetVisitor<Object, Class<?>>
{
    // -----
    // Constants
    // -----

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // -----
    // Public methods
    // -----

    @Override
    public Class<?> visit( final UntargettedBinding<?> binding )
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final LinkedKeyBinding<?> binding )
    {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final ConstructorBinding<?> binding )

```

```

    {
        return binding.getConstructor().getDeclaringType().getRawType();
    }

    @Override
    public Class<?> visit( final InstanceBinding<?> binding )
    {
        return binding.getInstance().getClass();
    }

    @Override
    public Class<?> visit( final ProviderInstanceBinding<?> binding )
    {
        final Provider<?> provider = binding.getProviderInstance();
        if ( provider instanceof DeferredProvider<?> )
        {
            try
            {
                // deferred providers let us peek at the underlying implementation type
                return ( (DeferredProvider<?>) provider ).getImplementationClass().load();
            }
            catch ( final TypeNotPresentException e ) // NOPMD
            {
                // fall-through
            }
        }
        return null;
    }

    @Override
    public Class<?> visit( final ExposedBinding<?> binding )
    {
        return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
    }
}

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package org.sonatype.guice.bean.locators;

```

```

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

import javax.inject.Qualifier;

/**
 * {@link Qualifier} used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = { } )
public @interface Implicit
{
}

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package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;

import org.sonatype.guice.bean.reflect.Logs;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @{@link ImplementedBy}, @{@link ProvidedBy}, and concrete types.
 */
final class ImplicitBindings
{
    // -----
    // Implementation fields
    // -----

```

```

private final Iterable<Injector> injectors;

// -----
// Constructors
// -----

ImplicitBindings( final BeanLocator locator )
{
    injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
}

// -----
// Public methods
// -----

@SuppressWarnings( { "unchecked", "rawtypes" } )
public <T> Binding<T> get( final TypeLiteral<T> type )
{
    final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
    for ( final Injector i : injectors )
    {
        try
        {
            // first round: check for any re-written implicit bindings
            final Binding binding = i.getBindings().get( implicitKey );
            if ( null != binding )
            {
                Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }

    final Key justInTimeKey = Key.get( type );
    for ( final Injector i : injectors )
    {
        try
        {
            // second round: fall back to just-in-time lookup
            final Binding binding = i.getBinding( justInTimeKey );
            if ( InjectorPublisher.isVisible( binding ) )
            {
                Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
                return binding;
            }
        }
    }
}

```

```
    }
  }
  catch ( final Throwable e )
  {
    continue; // no luck, move onto next injector
  }
}
return null;
}
}
```

## 3.381 sjsxp 1.0.1

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```
/*
 * $Id: license.txt,v 1.2 2006/04/01 06:01:50 jeffsuttor Exp $
 * %W% %E%
 */
```

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\*/

## 3.396 spring-asm 3.0.0.RELEASE

### 3.396.1 Available under license :

Link to license in SpringSource repository broken. Opened a case with SpringSource support:

Linda Shonk (lshonk)

From: Yathiraj Udipi (yudupi)

Sent: Friday, August 06, 2010 7:14 AM

To: Yathiraj Udipi (yudupi); Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Also Linda,

Just to clarify, what they mean by Spring projects is that - all `?org.springframework.XXXX?` modules, such as `org.springframework.beans`, `org.springframework.asm`, etc.

All the other third party jars distributed by springsource in the enterprise repository are named with a prefix `?org.springframework.XXXX?` for e.g. `org.springframework.organtlr` and they have their own separate licenses.

Thanks,

Yathi.

From: Yathiraj Udupi (yudupi)

Sent: Friday, August 06, 2010 7:00 AM

To: Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Hi Linda,

It should be the same Apache license for all Spring framework modules for all versions. So you should be fine. But in

the shipping XMP platform, we don't have any 3.0.1.RELEASE versions for any spring components.

message from springsource ?

?All Spring projects are licensed under the terms of the Apache License, Version 2.0. You may download the Apache License using the link below:

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HTML format

<http://www.apache.org/licenses/LICENSE-2.0.html>

For more info with regards to the Apache license:

<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

?

2

Thanks,

Yathi.

From: Linda Shonk (lshonk)

Sent: Thursday, August 05, 2010 12:37 PM

To: Yathiraj Udupi (yudupi)

Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.

Linda

From: SpringSource Support [mailto:support@springsource.com]

Sent: Thursday, August 05, 2010 8:03 AM

To: Yathiraj Udupi (yudupi)

Cc: Linda Shonk (lshonk); Andrew Ballantyne (aballant)

Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise

Repository

Please do not reply to this email, login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

Reference # 9815

Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

-----  
Product: Spring Modules

Sub product: Other  
Severity: Development  
Date Created: 2010-08-03 21:19:19  
Last Updated: 2010-08-05 03:27:03  
Status: Pending Customer FB  
Version: 3.0.0.RELE  
Platform: Other  
CC: lshonk@cisco.com, aballant@cisco.com  
Discussion Thread

-----  
Yathiraj Udupi on 2010-08-05 15:03:27:

Thanks Lou-ann for your response.

on 2010-08-05 05:36:54:

Hi Yathiraj,

Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses  
3

on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get  
the license for Spring 3.0.x

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 12:00:17:

Hi Yathiraj,

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Apache License using the link below:

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<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 00:14:46:

Hi Yathiraj,

I will look into this and will get back to you.

Regards,

Lou-ann

Yathiraj Udupi on 2010-08-03 21:19:19:

Hi,

We need to update the license information in our company License portal, for the Spring bundles that are  
shipped in Springsource dm Server 2.0, in the repository/ext folder.

This is required URGENTLY, so that we can ship our release.

When we look for the license file link from the Springsource enterprise repository, we get an error.

For example,

<http://www.springsource.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3>

4

.0.0.RELEASE

In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

```
<Error>
<Code>NoSuchKey</Code>
<Message>The specified key does not exist.</Message>
?
<Key>
ivy/bundles/release/org.springframework/org.springframework.asm/3.0.0.RELEASE/license-
3.0.0.RELEASE.txt
</Key>
<RequestId>C36AA496B452C999</RequestId>
?
<HostId>
fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EueZ5p1ySr5w6Gcp0FgutiZxERJSp
</HostId>
</Error>
```

Can you please provide the license files for all of the Springframework modules in the repository/ext ?

Thanks,  
Yathi.

Incident update link:

login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

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Version 2.0, January 2004

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ASM: a very small and fast Java bytecode manipulation framework

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## 3.397 spring-asm 3.1.2.RELEASE

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## 3.414 spring-expression 3.2.3 RELEASE

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 */

package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

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

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

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

```

```

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

    private final AspectJExpressionPointcut declaredPointcut;

    private Pointcut pointcut;

    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

    private final Method method;

    private final boolean lazy;

    private final AspectJAdvisorFactory atAspectJAdvisorFactory;

    private Advice instantiatedAdvice;

    private int declarationOrder;

    private String aspectName;

    private Boolean isBeforeAdvice = null;

    private Boolean isAfterAdvice = null;

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

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

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

```



```

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

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

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

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

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

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

```

```

return this.instantiatedAdvice;
}

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

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

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

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

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

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

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

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

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

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

```

```

return this.isAfterAdvice;
}

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

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

/**
 * Pointcut implementation that changes its behaviour when the advice is instantiated.
 * Note that this is a <i>dynamic</i> pointcut. Otherwise it might
 * be optimized out if it does not at first match statically.

```

```

*/
private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

    private final AspectJExpressionPointcut declaredPointcut;

    private final Pointcut preInstantiationPointcut;

    private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

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

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

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

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

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*/
```

```
package org.springframework.aop.aspectj.annotation;
```

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

```
/**
```

```
* Implementation of { @link MetadataAwareAspectInstanceFactory } that
* creates a new instance of the specified aspect class for every
* { @link #getAspectInstance() } call.
```

```
*
```

```
* @author Juergen Hoeller
```

```
* @since 2.0.4
```

```
*/
```

```
public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {
```

```
    private final AspectMetadata metadata;
```

```
/**
```

```
* Create a new SimpleMetadataAwareAspectInstanceFactory for the given aspect class.
```

```
* @param aspectClass the aspect class
```

```
* @param aspectName the aspect name
```

```
*/
```

```
public SimpleMetadataAwareAspectInstanceFactory(Class aspectClass, String aspectName) {
    super(aspectClass);
    this.metadata = new AspectMetadata(aspectClass, aspectName);
}
```

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

```
/**
```

```
* Determine a fallback order for the case that the aspect instance
```

```
* does not express an instance-specific order through implementing
```

```
* the { @link org.springframework.core.Ordered } interface.
```

```
* <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
```

```
* @param aspectClass the aspect class
```

```
*/
```

```
@Override
```

```
protected int getOrderForAspectClass(Class<?> aspectClass) {
```

```

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

}
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 */

package org.springframework.aop.aspectj;

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

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

    private final Class aspectClass;

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

```

```

    this.aspectClass = aspectClass;
}

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

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

public ClassLoader getAspectClassLoader() {
    return this.aspectClass.getClassLoader();
}

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

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

```

```

}

}
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 */

package org.springframework.aop.config;

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

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

    private String aspectBeanName;

    private BeanFactory beanFactory;

    /**
     * Set the name of the aspect bean. This is the bean that is returned when calling
     * {@link #getAspectInstance()}.
     */

```



```

*/
public void setAspectBeanName(String aspectBeanName) {
    this.aspectBeanName = aspectBeanName;
}

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

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

public ClassLoader getAspectClassLoader() {
    if (this.beanFactory instanceof ConfigurableBeanFactory) {
        return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
    }
    else {
        return ClassUtils.getDefaultClassLoader();
    }
}

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

}

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- \*/

```
package org.springframework.aop.interceptor;
```

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

```
/**
```

```
* Simple AOP Alliance MethodInterceptor that can be introduced
* in a chain to display verbose trace information about intercepted method
* invocations, with method entry and method exit info.
```

```
*
```

```
* 

Consider using CustomizableTraceInterceptor for more
* advanced needs.


```

```
*
```

```
* @author Dmitriy Kopylenko
* @author Juergen Hoeller
* @since 1.2
* @see CustomizableTraceInterceptor
```

```
*/
```

```
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {
```

```
/**
```

```
* Create a new SimpleTraceInterceptor with a static logger.
```

```
*/
```

```
public SimpleTraceInterceptor() {
}
```

```
/**
```

```
* Create a new SimpleTraceInterceptor with dynamic or static logger,
* according to the given flag.
* @param useDynamicLogger whether to use a dynamic logger or a static logger
* @see #setUseDynamicLogger
```

```
*/
```

```
public SimpleTraceInterceptor(boolean useDynamicLogger) {
    setUseDynamicLogger(useDynamicLogger);
}
```

```
@Override
```

```
protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
    String invocationDescription = getInvocationDescription(invocation);
    logger.trace("Entering " + invocationDescription);
```

```

try {
    Object rval = invocation.proceed();
    logger.trace("Exiting " + invocationDescription);
    return rval;
}
catch (Throwable ex) {
    logger.trace("Exception thrown in " + invocationDescription, ex);
    throw ex;
}
}

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

}

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 */

package org.springframework.aop.target;

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

```

```

* @author Juergen Hoeller
* @since 2.0.3
*/
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

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

}

```

## 3.417 spring-framework 3.1.2

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```
<?xml version="1.0" encoding="UTF-8"?>
<psf version="2.0">
<provider id="org.tigris.subversion.subclipse.core.svnnature">
```

<project reference="0.9.3,https://src.springframework.org/svn/spring-  
framework/trunk/org.springframework.aop,org.springframework.aop"/>  
<project reference="0.9.3,https://src.springframework.org/svn/spring-  
framework/trunk/org.springframework.beans,org.springframework.beans"/>  
<project reference="0.9.3,https://src.springframework.org/svn/spring-  
framework/trunk/org.springframework.context,org.springframework.context"/>  
<project reference="0.9.3,https://src.springframework.org/svn/spring-  
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<project reference="0.9.3,https://src.springframework.org/svn/spring-  
framework/trunk/org.springframework.core,org.springframework.core"/>  
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framework/trunk/org.springframework.expression,org.springframework.expression"/>  
<project reference="0.9.3,https://src.springframework.org/svn/spring-  
framework/trunk/org.springframework.instrument,org.springframework.instrument"/>  
<project reference="0.9.3,https://src.springframework.org/svn/spring-  
framework/trunk/org.springframework.instrument.tomcat,org.springframework.instrument.tomcat"/>  
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### 1.0

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# 3.443 velocity 1.6.3

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## 3.445 wstx-asl 3.2.7

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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-- activemq-web

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== For the behaviour.js library           ==
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-- activemq-web

=====  
== For the behaviour.js library

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== For the style.css library           ==
== For the common.js library          ==
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## 5.4 activemq-pool 5.9.0

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```
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Math.uuid.js (v1.4)  
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## 5.23 jackson-core-asl 1.9.2

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# 5.26 jackson-xc 1.9.2

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## 5.30 karaf-bundle-command 3.0.2

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## 5.53 roaster-jdt 2.13.1

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## 6.6 aaa-authn-basic 0.2.2-Lithium-SR2

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## 6.7 aaa-authn-cfg 0.1.3-Helium-SR3

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## 6.8 aaa-authn-federation 0.1.3-Helium-SR3

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## 6.9 aaa-authn-federation 0.2.2-Lithium-SR2

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## 6.12 aaa-authn-mdsal-api 0.2.2-Lithium-SR2

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## 6.14 aaa-authn-mdsal-store-impl 0.2.2-

### Lithium-SR2

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## 6.17 aaa-authn-sssd 0.2.2-Lithium-SR2

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## 6.19 aaa-authn-store 0.1.3-Helium-SR3

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### 3.0.3

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## 6.114 concurrent-hash-trie-map 0.2.23

## 6.115 config-netconf-connector 0.3.2-Lithium-SR2

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## 6.116 config-netty-config 0.3.2-Lithium-SR2

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# 6.121 controller-config-api 0.2.8-Helium-SR3

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## 6.122 controller-config-api 0.3.2-Lithium-SR3

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## 6.124 controller-config-manager 0.2.8-Helium-SR3

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## 6.125 controller-config-netty-config 0.2.8-

### Helium

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# 6.126 controller-config-persister-api 0.3.2- Lithium-SR2

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## 6.127 controller-config-persister-api 0.2.8-Helium-SR3

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## 6.128 controller-config-persister-directory-xml-adapter 0.2.8-Helium-SR3

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# 6.129 controller-config-persister-feature-adapter 0.2.8-Helium-SR3

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## 6.131 controller-config-persister-impl 0.2.8-Helium-SR3

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# 6.132 controller-config-util 0.2.8-Helium-SR3

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## 6.133 controller-features-akka 1.5.2-Lithium-SR2

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## 6.134 controller-features-akka 1.4.5-Helium-SR3

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# 6.135 controller-features-config 0.2.8-Helium-SR3

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## 6.136 controller-features-config-features

### 0.3.2-Lithium

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## 6.137 controller-features-config-netty 0.3.2 Lithium-SR2

## 6.138 controller-features-config-netty 0.2.8- Helium-SR3

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# 6.139 controller-features-config-persister

## 0.2.8-Helium-SR3

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## 6.140 controller-features-config-persister

### 0.3.2-Lithium-SR2

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## 6.141 controller-features-mdsal 1.2.2-Lithium-SR2

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# 6.142 controller-features-mdsal 1.1.3-Helium-SR3

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## 6.143 controller-features-restconf 1.1.3- Helium-SR3

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## 6.144 controller-ietf-netconf 0.3.2-Lithium-SR2

## 6.145 controller-ietf-netconf-monitoring 0.2.8-Helium-SR3

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# 6.146 controller-ietf-netconf-monitoring-extension 0.2.8-Helium-SR3

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## 6.147 controller-karaf-branding 1.1.2-Lithium-SR2

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## 6.148 controller-karaf-branding 1.0.3-Helium-SR3

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# 6.149 controller-md-sal-config 1.1.3-Helium-SR3

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## 6.150 controller-netconf-api 0.2.8-Helium-SR3

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## 6.151 controller-netconf-api 0.3.2-Lithium-SR2

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# 6.152 controller-netconf-auth 0.3.2-Lithium-SR2

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## 6.153 controller-netconf-auth 0.2.8-Helium-SR3

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# 6.154 controller-netconf-client 0.3.2-Lithium-SR2

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## 6.156 controller-netconf-config 0.2.8 Helium-SR3

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# 6.157 controller-netconf-config-dispatcher

## 0.2.8 Helium-SR3

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## 6.158 controller-netconf-config-dispatcher

### 0.3.2-Lithium-SR2

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## 6.159 controller-netconf-connector-config

### 0.3.2-Lithium-SR2

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# 6.160 controller-netconf-connector-config

## 0.2.8-Helium-SR3

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## 6.161 controller-netconf-impl 0.2.8-Helium-SR3

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## 6.162 controller-netconf-impl 0.3.2-Lithium-SR2

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# 6.163 controller-netconf-mapping-api 0.2.8- Helium-SR3

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## 6.164 controller-netconf-netty-util .2.8-

### Helium-SR3

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# 6.166 controller-netty-event-executor-config

## 0.2.8-Helium-SR3

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## 6.167 controller-netty-timer-config 0.2.8- Helium-SR3

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## 6.168 controller-opendaylight-karaf-resouce

### 1.4.5-Helium-SR3

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# 6.169 controller-opendaylight-karaf-resource

## 1.5.2-Lithium-SR2

# 6.170 controller-protocol-framework 0.5.3- Helium-SR3

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## 6.171 controller-sal-akka-raft 1.1.3-Helium-SR3

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## 6.172 controller-sal-binding-api 1.1.3-Helium-SR3

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# 6.173 controller-sal-binding-broker-impl 1.1.3- Helium-SR3

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## 6.174 controller-sal-binding-config 1.1.3- Helium-SR3

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## 6.175 controller-sal-broker-impl 1.1.3-Helium-SR3

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# 6.176 controller-sal-clustering-commons

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## 6.177 controller-sal-clustering-config 1.1.3-Helium-SR3

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## 6.178 controller-sal-clustering-config 1.2.2-Lithium-SR2

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# 6.179 controller-sal-common 1.1.3-Helium-SR3

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## 6.180 controller-sal-common-api 1.1.3- Helium-SR3

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## 6.181 controller-sal-common-impl 1.1.3- Helium-SR3

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# 6.182 controller-sal-common-util 1.1.3- Helium-SR3

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## 6.183 controller-sal-connector-api 1.1.3- Helium-SR3

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## 6.184 controller-sal-core-api 1.1.3-Helium-SR3

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# 6.185 controller-sal-core-spi 1.1.3-Helium-SR3

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## 6.186 controller-sal-distributed-datastore

### 1.1.3-Helium-SR3

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## 6.187 controller-sal-dom-xsql 1.1.3-Helium-SR3

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# 6.188 controller-sal-dom-xsql-config 1.1.3- Helium-SR3

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## 6.189 controller-sal-inmemory-datatore .3

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## 6.190 controller-sal-karaf-xsql 1.2.2-Lithium-SR2

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# 6.191 controller-sal-karaf-xsql 1.1.3-Helium-SR3

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## 6.192 controller-sal-netconf-connector 1.1.3-Helium-SR3

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## 6.193 controller-sal-remote 1.1.3-Helium-SR3

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## 6.194 controller-sal-remotepc-connector

### 1.1.3-Helium-SR3

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## 6.195 controller-sal-rest-connector 1.1.3- Helium-SR3

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# 6.196 controller-sal-rest-connector-config

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## 6.197 controller-sal-rest-docgen 1.1.3-Helium-SR3

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## 6.198 controller-shutdown-api 0.2.8-Helium-SR3

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# 6.199 controller-shutdown-api 0.3.2-Lithium-SR2

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## 6.200 controller-shutdown-impl 0.2.8-Helium-SR3

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## 6.201 controller-threadpool-config-api 0.2.8-Helium-SR3

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# 6.202 controller-threadpool-config-impl 0.2.8-Helium-SR3

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## 6.203 controller-yang-jmx-generator 0.2.8-Helium-SR3

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## 6.204 controller-yang-jmx-generator-plugin

### 0.2.8-Helium-SR3

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## 20070216

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# 6.258 jersey-core-client 2.0

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## 6.260 jettison 1.1

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```
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## 6.268 JLEdit :: Core 0.2.1

# 6.269 jline-jar 2.11

## 6.269.1 Available under license :

```
/*
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 *
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 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer which contains multiple completers and aggregates them together.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class AggregateCompleter
    implements Completer
{
    private final List<Completer> completers = new ArrayList<Completer>();

    public AggregateCompleter() {
        // empty
    }

    /**
     * Construct an AggregateCompleter with the given collection of completers.
     * The completers will be used in the iteration order of the collection.
     *
     * @param completers the collection of completers
     */
    public AggregateCompleter(final Collection<Completer> completers) {
        checkNotNull(completers);
        this.completers.addAll(completers);
    }
}
```

```

/**
 * Construct an AggregateCompleter with the given completers.
 * The completers will be used in the order given.
 *
 * @param completers the completers
 */
public AggregateCompleter(final Completer... completers) {
    this(Arrays.asList(completers));
}

/**
 * Retrieve the collection of completers currently being aggregated.
 *
 * @return the aggregated completers
 */
public Collection<Completer> getCompleters() {
    return completers;
}

/**
 * Perform a completion operation across all aggregated completers.
 *
 * @see Completer#complete(String, int, java.util.List)
 * @return the highest completion return value from all completers
 */
public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer could be null
    checkNotNull(candidates);

    List<Completion> completions = new ArrayList<Completion>(completers.size());

    // Run each completer, saving its completion results
    int max = -1;
    for (Completer completer : completers) {
        Completion completion = new Completion(candidates);
        completion.complete(completer, buffer, cursor);

        // Compute the max cursor position
        max = Math.max(max, completion.cursor);

        completions.add(completion);
    }

    // Append candidates from completions which have the same cursor position as max
    for (Completion completion : completions) {
        if (completion.cursor == max) {
            candidates.addAll(completion.candidates);
        }
    }
}

```

```

    }

    return max;
}

/**
 * @return a string representing the aggregated completers
 */
@Override
public String toString() {
    return getClass().getSimpleName() + "{" +
        "completers=" + completers +
        '}';
}

private class Completion
{
    public final List<CharSequence> candidates;

    public int cursor;

    public Completion(final List<CharSequence> candidates) {
        checkNotNull(candidates);
        this.candidates = new LinkedList<CharSequence>(candidates);
    }

    public void complete(final Completer completer, final String buffer, final int cursor) {
        checkNotNull(completer);
        this.cursor = completer.complete(buffer, cursor, candidates);
    }
}
}
}
/**
 * Copyright (c) 2002-2012, the original author or authors.
 *
 * This software is distributable under the BSD license. See the terms of the
 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import jline.internal.Log;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;

```

```

import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A {@link Completer} implementation that invokes a child completer using the appropriate separator
 * argument.
 * This can be used instead of the individual completers having to know about argument parsing semantics.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class ArgumentCompleter
    implements Completer
{
    private final ArgumentDelimiter delimiter;

    private final List<Completer> completers = new ArrayList<Completer>();

    private boolean strict = true;

    /**
     * Create a new completer with the specified argument delimiter.
     *
     * @param delimiter The delimiter for parsing arguments
     * @param completers The embedded completers
     */
    public ArgumentCompleter(final ArgumentDelimiter delimiter, final Collection<Completer> completers) {
        this.delimiter = checkNotNull(delimiter);
        checkNotNull(completers);
        this.completers.addAll(completers);
    }

    /**
     * Create a new completer with the specified argument delimiter.
     *
     * @param delimiter The delimiter for parsing arguments
     * @param completers The embedded completers
     */
    public ArgumentCompleter(final ArgumentDelimiter delimiter, final Completer... completers) {
        this(delimiter, Arrays.asList(completers));
    }

    /**
     * Create a new completer with the default {@link WhitespaceArgumentDelimiter}.
     *
     * @param completers The embedded completers

```

```

*/
public ArgumentCompleter(final Completer... completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * Create a new completer with the default {@link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final List<Completer> completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * If true, a completion at argument index N will only succeed
 * if all the completions from 0-(N-1) also succeed.
 */
public void setStrict(final boolean strict) {
    this.strict = strict;
}

/**
 * Returns whether a completion at argument index N will success
 * if all the completions from arguments 0-(N-1) also succeed.
 *
 * @return True if strict.
 * @since 2.3
 */
public boolean isStrict() {
    return this.strict;
}

/**
 * @since 2.3
 */
public ArgumentDelimiter getDelimiter() {
    return delimiter;
}

/**
 * @since 2.3
 */
public List<Completer> getCompleters() {
    return completers;
}

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {

```



```

// buffer can be null
checkNotNull(candidates);

ArgumentDelimiter delim = getDelimiter();
ArgumentList list = delim.delimit(buffer, cursor);
int argpos = list.getArgumentPosition();
int argIndex = list.getCursorArgumentIndex();

if (argIndex < 0) {
    return -1;
}

List<Completer> completers = getCompleters();
Completer completer;

// if we are beyond the end of the completers, just use the last one
if (argIndex >= completers.size()) {
    completer = completers.get(completers.size() - 1);
}
else {
    completer = completers.get(argIndex);
}

// ensure that all the previous completers are successful before allowing this completer to pass (only if strict).
for (int i = 0; isStrict() && (i < argIndex); i++) {
    Completer sub = completers.get(i >= completers.size() ? (completers.size() - 1) : i);
    String[] args = list.getArguments();
    String arg = (args == null || i >= args.length) ? "" : args[i];

    List<CharSequence> subCandidates = new LinkedList<CharSequence>();

    if (sub.complete(arg, arg.length(), subCandidates) == -1) {
        return -1;
    }

    if (subCandidates.size() == 0) {
        return -1;
    }
}

int ret = completer.complete(list.getCursorArgument(), argpos, candidates);

if (ret == -1) {
    return -1;
}

int pos = ret + list.getBufferPosition() - argpos;

```

```

// Special case: when completing in the middle of a line, and the area under the cursor is a delimiter,
// then trim any delimiters from the candidates, since we do not need to have an extra delimiter.
//
// E.g., if we have a completion for "foo", and we enter "f bar" into the buffer, and move to after the "f"
// and hit TAB, we want "foo bar" instead of "foo bar".

if ((cursor != buffer.length()) && delim.isDelimiter(buffer, cursor)) {
    for (int i = 0; i < candidates.size(); i++) {
        CharSequence val = candidates.get(i);

        while (val.length() > 0 && delim.isDelimiter(val, val.length() - 1)) {
            val = val.subSequence(0, val.length() - 1);
        }

        candidates.set(i, val);
    }
}

Log.trace("Completing ", buffer, " (pos=", cursor, ") with: ", candidates, ": offset=", pos);

return pos;
}

/**
 * The {@link ArgumentCompleter.ArgumentDelimiter} allows custom breaking up of a {@link String} into
individual
 * arguments in order to dispatch the arguments to the nested {@link Completer}.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static interface ArgumentDelimiter
{
    /**
     * Break the specified buffer into individual tokens that can be completed on their own.
     *
     * @param buffer The buffer to split
     * @param pos The current position of the cursor in the buffer
     * @return The tokens
     */
    ArgumentList delimit(CharSequence buffer, int pos);

    /**
     * Returns true if the specified character is a whitespace parameter.
     *
     * @param buffer The complete command buffer
     * @param pos The index of the character in the buffer
     * @return True if the character should be a delimiter
     */
}

```

```

    boolean isDelimiter(CharSequence buffer, int pos);
}

/**
 * Abstract implementation of a delimiter that uses the {@link #isDelimiter} method to determine if a particular
 * character should be used as a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public abstract static class AbstractArgumentDelimiter
    implements ArgumentDelimiter
{
    // TODO: handle argument quoting and escape characters

    private char[] quoteChars = {"'", ""};

    private char[] escapeChars = {"\\"};

    public void setQuoteChars(final char[] chars) {
        this.quoteChars = chars;
    }

    public char[] getQuoteChars() {
        return this.quoteChars;
    }

    public void setEscapeChars(final char[] chars) {
        this.escapeChars = chars;
    }

    public char[] getEscapeChars() {
        return this.escapeChars;
    }

    public ArgumentList delimit(final CharSequence buffer, final int cursor) {
        List<String> args = new LinkedList<String>();
        StringBuilder arg = new StringBuilder();
        int argpos = -1;
        int bindex = -1;

        for (int i = 0; (buffer != null) && (i <= buffer.length()); i++) {
            // once we reach the cursor, set the
            // position of the selected index
            if (i == cursor) {
                bindex = args.size();
                // the position in the current argument is just the
                // length of the current argument
                argpos = arg.length();
            }
        }
    }
}

```

```

    }

    if ((i == buffer.length()) || isDelimiter(buffer, i)) {
        if (arg.length() > 0) {
            args.add(arg.toString());
            arg.setLength(0); // reset the arg
        }
    }
    else {
        arg.append(buffer.charAt(i));
    }
}

return new ArgumentList(args.toArray(new String[args.size()]), bindex, argpos, cursor);
}

/**
 * Returns true if the specified character is a whitespace parameter. Check to ensure that the character is not
 * escaped by any of { @link #getQuoteChars}, and is not escaped by ant of the { @link #getEscapeChars}, and
 * returns true from { @link #isDelimiterChar}.
 *
 * @param buffer The complete command buffer
 * @param pos The index of the character in the buffer
 * @return True if the character should be a delimiter
 */
public boolean isDelimiter(final CharSequence buffer, final int pos) {
    return !isQuoted(buffer, pos) && !isEscaped(buffer, pos) && isDelimiterChar(buffer, pos);
}

public boolean isQuoted(final CharSequence buffer, final int pos) {
    return false;
}

public boolean isEscaped(final CharSequence buffer, final int pos) {
    if (pos <= 0) {
        return false;
    }

    for (int i = 0; (escapeChars != null) && (i < escapeChars.length);
        i++) {
        if (buffer.charAt(pos) == escapeChars[i]) {
            return !isEscaped(buffer, pos - 1); // escape escape
        }
    }

    return false;
}

```

```

/**
 * Returns true if the character at the specified position is a delimiter. This method will only be called if
 * the character is not enclosed in any of the {@link #getQuoteChars}, and is not escaped by any of the
 * {@link #getEscapeChars}. To perform escaping manually, override {@link #isDelimiter} instead.
 */
public abstract boolean isDelimiterChar(CharSequence buffer, int pos);
}

/**
 * {@link ArgumentCompleter.ArgumentDelimiter} implementation that counts all whitespace (as reported by
 * {@link Character#isWhitespace}) as being a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class WhitespaceArgumentDelimiter
    extends AbstractArgumentDelimiter
{
    /**
     * The character is a delimiter if it is whitespace, and the
     * preceding character is not an escape character.
     */
    @Override
    public boolean isDelimiterChar(final CharSequence buffer, final int pos) {
        return Character.isWhitespace(buffer.charAt(pos));
    }
}

/**
 * The result of a delimited buffer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class ArgumentList
{
    private String[] arguments;

    private int cursorArgumentIndex;

    private int argumentPosition;

    private int bufferPosition;

    /**
     * @param arguments      The array of tokens
     * @param cursorArgumentIndex  The token index of the cursor
     * @param argumentPosition  The position of the cursor in the current token
     * @param bufferPosition   The position of the cursor in the whole buffer
     */
}

```

```

public ArgumentList(final String[] arguments, final int cursorArgumentIndex, final int argumentPosition, final
int bufferPosition) {
    this.arguments = checkNotNull(arguments);
    this.cursorArgumentIndex = cursorArgumentIndex;
    this.argumentPosition = argumentPosition;
    this.bufferPosition = bufferPosition;
}

public void setCursorArgumentIndex(final int i) {
    this.cursorArgumentIndex = i;
}

public int getCursorArgumentIndex() {
    return this.cursorArgumentIndex;
}

public String getCursorArgument() {
    if ((cursorArgumentIndex < 0) || (cursorArgumentIndex >= arguments.length)) {
        return null;
    }

    return arguments[cursorArgumentIndex];
}

public void setArgumentPosition(final int pos) {
    this.argumentPosition = pos;
}

public int getArgumentPosition() {
    return this.argumentPosition;
}

public void setArguments(final String[] arguments) {
    this.arguments = arguments;
}

public String[] getArguments() {
    return this.arguments;
}

public void setBufferPosition(final int pos) {
    this.bufferPosition = pos;
}

public int getBufferPosition() {
    return this.bufferPosition;
}
}

```

```

}
/*
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 *
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 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import jline.console.ConsoleReader;
import jline.console.CursorBuffer;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
import java.util.Set;

/**
 * A {@link CompletionHandler} that deals with multiple distinct completions
 * by outputting the complete list of possibilities to the console. This
 * mimics the behavior of the
 * <a href="http://www.gnu.org/directory/readline.html">readline</a> library.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class CandidateListCompletionHandler
    implements CompletionHandler
{
    // TODO: handle quotes and escaped quotes && enable automatic escaping of whitespace

    public boolean complete(final ConsoleReader reader, final List<CharSequence> candidates, final int pos) throws
        IOException
    {
        CursorBuffer buf = reader.getCursorBuffer();

        // if there is only one completion, then fill in the buffer
        if (candidates.size() == 1) {
            CharSequence value = candidates.get(0);

            // fail if the only candidate is the same as the current buffer

```

```

        if (value.equals(buf.toString())) {
            return false;
        }

        setBuffer(reader, value, pos);

        return true;
    }
    else if (candidates.size() > 1) {
        String value = getUnambiguousCompletions(candidates);
        setBuffer(reader, value, pos);
    }

    printCandidates(reader, candidates);

    // redraw the current console buffer
    reader.drawLine();

    return true;
}

public static void setBuffer(final ConsoleReader reader, final CharSequence value, final int offset) throws
    IOException
{
    while ((reader.getCursorBuffer().cursor > offset) && reader.backspace()) {
        // empty
    }

    reader.putString(value);
    reader.setCursorPosition(offset + value.length());
}

/**
 * Print out the candidates. If the size of the candidates is greater than the
 * {@link ConsoleReader#getAutoprintThreshold}, they prompt with a warning.
 *
 * @param candidates the list of candidates to print
 */
public static void printCandidates(final ConsoleReader reader, Collection<CharSequence> candidates) throws
    IOException
{
    Set<CharSequence> distinct = new HashSet<CharSequence>(candidates);

    if (distinct.size() > reader.getAutoprintThreshold()) {
        //noinspection StringConcatenation
        reader.print(Messages.DISPLAY_CANDIDATES.format(candidates.size()));
        reader.flush();
    }
}

```



```

int c;

String noOpt = Messages.DISPLAY_CANDIDATES_NO.format();
String yesOpt = Messages.DISPLAY_CANDIDATES_YES.format();
char[] allowed = {yesOpt.charAt(0), noOpt.charAt(0)};

while ((c = reader.readCharacter(allowed)) != -1) {
    String tmp = new String(new char[] {(char) c});

    if (noOpt.startsWith(tmp)) {
        reader.println();
        return;
    }
    else if (yesOpt.startsWith(tmp)) {
        break;
    }
    else {
        reader.beep();
    }
}

// copy the values and make them distinct, without otherwise affecting the ordering. Only do it if the sizes differ.
if (distinct.size() != candidates.size()) {
    Collection<CharSequence> copy = new ArrayList<CharSequence>();

    for (CharSequence next : candidates) {
        if (!copy.contains(next)) {
            copy.add(next);
        }
    }

    candidates = copy;
}

reader.println();
reader.printColumns(candidates);
}

/**
 * Returns a root that matches all the {@link String} elements of the specified {@link List},
 * or null if there are no commonalities. For example, if the list contains
 * <i>foobar</i>, <i>foobaz</i>, <i>foobuz</i>, the method will return <i>foob</i>.
 */
private String getUnambiguousCompletions(final List<CharSequence> candidates) {
    if (candidates == null || candidates.isEmpty()) {
        return null;
    }
}

```

```

// convert to an array for speed
String[] strings = candidates.toArray(new String[candidates.size()]);

String first = strings[0];
StringBuilder candidate = new StringBuilder();

for (int i = 0; i < first.length(); i++) {
    if (startsWith(first.substring(0, i + 1), strings)) {
        candidate.append(first.charAt(i));
    }
    else {
        break;
    }
}

return candidate.toString();
}

/**
 * @return true is all the elements of <i>candidates</i> start with <i>starts</i>
 */
private boolean startsWith(final String starts, final String[] candidates) {
    for (String candidate : candidates) {
        if (!candidate.startsWith(starts)) {
            return false;
        }
    }

    return true;
}

private static enum Messages
{
    DISPLAY_CANDIDATES,
    DISPLAY_CANDIDATES_YES,
    DISPLAY_CANDIDATES_NO;;

private static final
ResourceBundle
    bundle =
        ResourceBundle.getBundle(CandidateListCompletionHandler.class.getName(), Locale.getDefault());

public String format(final Object... args) {
    if (bundle == null)
        return "";
    else
        return String.format(bundle.getString(name()), args);
}

```

```

    }
}
}
/*
 * Copyright (c) 2002-2012, the original author or authors.
 *
 * This software is distributable under the BSD license. See the terms of the
 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import java.util.List;

/**
 * A completer is the mechanism by which tab-completion candidates will be resolved.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface Completer
{
    //
    // FIXME: Check if we can use CharSequece for buffer?
    //

    /**
     * Populates <i>candidates</i> with a list of possible completions for the <i>buffer</i>.
     *
     * The <i>candidates</i> list will not be sorted before being displayed to the user: thus, the
     * complete method should sort the { @link List} before returning.
     *
     * @param buffer    The buffer
     * @param cursor    The current position of the cursor in the <i>buffer</i>
     * @param candidates The { @link List} of candidates to populate
     * @return          The index of the <i>buffer</i> for which the completion will be relative
     */
    int complete(String buffer, int cursor, List<CharSequence> candidates);
}
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 */

```

```

*/
package jline.console.completer;

import jline.console.ConsoleReader;

import java.io.IOException;
import java.util.List;

/**
 * Handler for dealing with candidates for tab-completion.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface CompletionHandler
{
    boolean complete(ConsoleReader reader, List<CharSequence> candidates, int position) throws IOException;
}
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 */
package jline.console.completer;

import static jline.internal.Preconditions.checkNotNull;

/**
 * {@link Completer} for {@link Enum} names.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class EnumCompleter
    extends StringsCompleter
{
    public EnumCompleter(Class<? extends Enum> source) {
        checkNotNull(source);

        for (Enum<?> n : source.getEnumConstants()) {
            this.getStrings().add(n.name().toLowerCase());
        }
    }
}

```

```

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 */
package jline.console.completer;

import jline.internal.Configuration;

import java.io.File;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A file name completer takes the buffer and issues a list of
 * potential completions.
 *
 * <p>
 * This completer tries to behave as similar as possible to
 * <i>bash</i>'s file name completion (using GNU readline)
 * with the following exceptions:
 *
 * <p>
 * <ul>
 * <li>Candidates that are directories will end with "/"</li>
 * <li>Wildcard regular expressions are not evaluated or replaced</li>
 * <li>The "~" character can be used to represent the user's home,
 * but it cannot complete to other users' homes, since java does
 * not provide any way of determining that easily</li>
 * </ul>
 *
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class FileNameCompleter
    implements Completer
{
    // TODO: Handle files with spaces in them

    private static final boolean OS_IS_WINDOWS;

    static {
        String os = Configuration.getOsName();
        OS_IS_WINDOWS = os.contains("windows");
    }

```

```

public int complete(String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer can be null
    checkNotNull(candidates);

    if (buffer == null) {
        buffer = "";
    }

    if (OS_IS_WINDOWS) {
        buffer = buffer.replace('/', '\\');
    }

    String translated = buffer;

    File homeDir = getUserHome();

    // Special character: ~ maps to the user's home directory
    if (translated.startsWith("~" + separator())) {
        translated = homeDir.getPath() + translated.substring(1);
    }
    else if (translated.startsWith("~")) {
        translated = homeDir.getParentFile().getAbsolutePath();
    }
    else if (!(translated.startsWith(separator()))) {
        String cwd = getUserDir().getAbsolutePath();
        translated = cwd + separator() + translated;
    }

    File file = new File(translated);
    final File dir;

    if (translated.endsWith(separator())) {
        dir = file;
    }
    else {
        dir = file.getParentFile();
    }

    File[] entries = dir == null ? new File[0] : dir.listFiles();

    return matchFiles(buffer, translated, entries, candidates);
}

protected String separator() {
    return File.separator;
}

```

```

protected File getUserHome() {
    return Configuration.getUserHome();
}

protected File getUserDir() {
    return new File(".");
}

protected int matchFiles(final String buffer, final String translated, final File[] files, final List<CharSequence>
candidates) {
    if (files == null) {
        return -1;
    }

    int matches = 0;

    // first pass: just count the matches
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            matches++;
        }
    }
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            CharSequence name = file.getName() + (matches == 1 && file.isDirectory() ? separator() : " ");
            candidates.add(render(file, name).toString());
        }
    }

    final int index = buffer.lastIndexOf(separator());

    return index + separator().length();
}

protected CharSequence render(final File file, final CharSequence name) {
    return name;
}
}
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 */
package jline.console.completer;

```

```

import java.util.List;

/**
 * Null completer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public final class NullCompleter
    implements Completer
{
    public static final NullCompleter INSTANCE = new NullCompleter();

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        return -1;
    }
}
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 */
package jline.console.completer;

import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.SortedSet;
import java.util.TreeSet;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer for a set of strings.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class StringsCompleter
    implements Completer
{
    private final SortedSet<String> strings = new TreeSet<String>();

    public StringsCompleter() {

```



```

    // empty
}

public StringsCompleter(final Collection<String> strings) {
    checkNotNull(strings);
    getStrings().addAll(strings);
}

public StringsCompleter(final String... strings) {
    this(Arrays.asList(strings));
}

public Collection<String> getStrings() {
    return strings;
}

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer could be null
    checkNotNull(candidates);

    if (buffer == null) {
        candidates.addAll(strings);
    }
    else {
        for (String match : strings.tailSet(buffer)) {
            if (!match.startsWith(buffer)) {
                break;
            }

            candidates.add(match);
        }
    }

    if (candidates.size() == 1) {
        candidates.set(0, candidates.get(0) + " ");
    }

    return candidates.isEmpty() ? -1 : 0;
}
}
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#

```

DISPLAY\_CANDIDATES=Display all %d possibilities? (y or n)  
DISPLAY\_CANDIDATES\_YES=y  
DISPLAY\_CANDIDATES\_NO=n  
DISPLAY\_MORE=--More--

## 6.270 JOpt Simple 3.2

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## 6.278 LZ4 and xxHash 1.2.0

## 6.279 md-sal-config 1.2.2-Lithium-SR2

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## 6.280 mdsal-netconf-connector 0.3.2-Lithium-SR2

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## 6.281 mdsal-netconf-monitoring 0.3.2-Lithium-SR2

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## 6.283 model-flow-base 1.1.1-Helium-SR1

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## 6.284 model-flow-service 1.1.3-Helium-SR3

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## 6.290 mortbay-jetty 6.1.26

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## 6.326 OpenDaylight :: Karaf :: Branding 1.1.0-Lithium

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## 6.327 opendaylight-karaf-empty 1.4.5HeliumSR3

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## 6.366 sal-clustering-commons 1.2.2-Lithium-SR2

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## 6.367 sal-common 1.2.2-Lithium-SR2

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## 6.368 sal-connector-api 1.2.2-Lithium-SR2

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## 6.369 sal-core-api 1.2.2-Lithium-SR2

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## 6.370 sal-core-spi 1.2.2-Lithium-SR2

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## 6.371 sal-distributed-datastore 1.2.2-Lithium-SR2

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## 6.372 sal-dom-xsql 1.2.2-Lithium-SR2

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## **6.375 sal-netconf-connector 1.2.2-Lithium-SR2**

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## 6.381 sample-toaster 1.1.3-Helium-SR3

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## 6.384 sample-toaster-config-xml-config 1.1.3- Helium-SR3

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## 6.389 scala-xml\_2.11 1.0.2

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*
*/
package org.slf4j;

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

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

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }
}

/**

```

```

* Return a Marker instance as specified by the name parameter using the
* previously bound { @link IMarkerFactory }instance.
*
* @param name
*     The name of the { @link Marker } object to return.
* @return marker
*/
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

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

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

```

## 6.394 Spring Beans 3.2.8.RELEASE

## 6.395 spring-core 3.2.8.RELEASE

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compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
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compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
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lib/csharp/src/Protocol/TMap.cs  
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## 6.418 xtext-xbase 2.7.3

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## 6.419 yang-binding 0.6.2-SNAPSHOT

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## 6.420 yang-binding 0.6.3-Helium-SR1

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\*/

package org.opendaylight.yangtools.yang.binding;

import java.io.IOException;

/\*\*

\* SPI-level contract for implementations of { @link DataObjectSerializer }.

\* The contract is kept between implementation of { @link DataObjectSerializerRegistry },

\* which maintains the lookup context required for recursive serialization.

```

*
* FIXME: this interface needs to be moved into .spi, but due to classpath funkyness
*   of OSGi, that change has to be carefully orchestrated to ensure proper imports
*   exist in all generated packages. One avenue how to achieve that is to move
*   {@link YangModuleInfo} and modify code generator to add a static field
*   to all generated classes which will point to the per-model YangModuleInfo
*   (currently all users of it have to walk the package hierarchy, so that
*   is an improvement in and of itself).
*
*/
public interface DataObjectSerializerImplementation {
    /**
     *
     * Writes stream events for supplied data object to provided stream.
     *
     * DataObjectSerializerRegistry may be used to lookup serializers
     * for other generated classes in order to support writing
     * their events.
     *
     */
    void serialize(DataObjectSerializerRegistry reg, DataObject obj, BindingStreamWriter stream) throws
    IOException;
    }
    /**
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     *
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     * and is available at http://www.eclipse.org/legal/epl-v10.html
     *
     */
    package org.opendaylight.yangtools.yang.binding;

    import org.opendaylight.yangtools.util.HashCodeBuilder;
    import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.IdentifiableItem;
    import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.Item;
    import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.PathArgument;

    import com.google.common.base.Preconditions;
    import com.google.common.collect.ImmutableList;
    import com.google.common.collect.Iterables;

    final class InstanceIdentifierBuilderImpl<T extends DataObject> implements
    InstanceIdentifier.InstanceIdentifierBuilder<T> {
        private final ImmutableList.Builder<PathArgument> pathBuilder = ImmutableList.builder();
        private final HashCodeBuilder<PathArgument> hashBuilder;
        private final Iterable<? extends PathArgument> basePath;
        private boolean wildcard = false;
        private PathArgument arg = null;

```

```

InstanceIdentifierBuilderImpl() {
    this.hashBuilder = new HashCodeBuilder<>();
    this.basePath = null;
}

InstanceIdentifierBuilderImpl(final PathArgument item, final Iterable<? extends PathArgument> pathArguments,
final int hash, final boolean wildcard) {
    this.hashBuilder = new HashCodeBuilder<>(hash);
    this.basePath = pathArguments;
    this.wildcard = wildcard;
    this.arg = item;
}

@Override
public int hashCode() {
    return hashBuilder.toInstance();
}

@SuppressWarnings("unchecked")
<N extends DataObject> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> container) {
    arg = new Item<N>(container);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);

    if (Identifiable.class.isAssignableFrom(container)) {
        wildcard = true;
    }

    return (InstanceIdentifierBuilderImpl<N>) this;
}

@SuppressWarnings("unchecked")
<N extends DataObject & Identifiable<K> , K extends Identifier<N>> InstanceIdentifierBuilderImpl<N>
addNode(final Class<N> listItem, final K listKey) {
    arg = new IdentifiableItem<N, K>(listItem, listKey);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);
    return (InstanceIdentifierBuilderImpl<N>) this;
}

@Override
public <N extends ChildOf<? super T>> InstanceIdentifierBuilderImpl<N> child(final Class<N> container) {
    return addNode(container);
}

@Override
public <N extends Identifiable<K> & ChildOf<? super T>, K extends Identifier<N>>

```



```

InstanceIdentifierBuilderImpl<N> child(final Class<N> listItem, final K listKey) {
    return addNode(listItem, listKey);
}

/**
 * Build an identifier which refers to a specific augmentation of the current InstanceIdentifier referenced by
 * the builder
 *
 * @param container
 * @param <N>
 * @return
 */
@Override
public <N extends DataObject & Augmentation<? super T>> InstanceIdentifierBuilderImpl<N>
augmentation(final Class<N> container) {
    return addNode(container);
}

@Override
public InstanceIdentifier<T> build() {
    Preconditions.checkNotNull(arg, "No path arguments present");

    final Iterable<PathArgument> pathArguments;
    if (basePath == null) {
        pathArguments = pathBuilder.build();
    } else {
        pathArguments = Iterables.concat(basePath, pathBuilder.build());
    }

    @SuppressWarnings("unchecked")
    final InstanceIdentifier<T> ret = (InstanceIdentifier<T>) InstanceIdentifier.trustedCreate(arg, pathArguments,
hashBuilder.toInstance(), wildcard);
    return ret;
}

@Override
public InstanceIdentifier<T> toInstance() {
    return build();
}
}
/**
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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.yangtools.yang.binding;

```

```

import java.util.Set;
import java.util.concurrent.Future;

import org.opendaylight.yangtools.yang.common.RpcResult;

public interface RpcImplementation {

    // Fixme: Change to RpcInput
    Set<Class<? extends DataContainer>> getSupportedInputs();

    // Fixme: Change to RpcInput
    <T extends DataContainer> Future<RpcResult<?>> invoke(Class<T> type, T input);
}

```

## 6.421 yang-binding 0.7.2-Lithium-SR2

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```

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.yangtools.yang.common;

import java.text.SimpleDateFormat;

public class SimpleDateFormatUtil {

    private static final ThreadLocal<SimpleDateFormat> REVISION_FORMAT = new
    ThreadLocal<SimpleDateFormat>() {

        protected SimpleDateFormat initialValue() {
            return new SimpleDateFormat("yyyy-MM-dd");
        };

        public void set(SimpleDateFormat value) {

```

```
        throw new UnsupportedOperationException();
    };

};

    public static SimpleDateFormat getRevisionFormat() {
        return REVISION_FORMAT.get();
    }
}
```

## 6.423 yang-common 0.7.2-Lithium-SR2

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## 6.437 yang-model-export 0.7.2-Lithium-SR2

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## 6.438 yang-model-util 0.6.2-SNAPSHOT

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## 6.444 yangtools-binding-generator-api 0.6.5-Helium-SR3

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## 6.445 yangtools-binding-generator-impl 0.6.5-Helium-SR3

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# 6.446 yangtools-binding-generator-spi 0.6.5- Helium-SR3

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## 6.447 yangtools-binding-generator-util 0.6.5-Helium-SR3

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## 6.448 yangtools-binding-model-api .6.5- Helium-SR3

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# 6.449 yangtools-binding-type-provider 0.6.5-Helium-SR3

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## 6.450 yangtools-concepts 0.6.5-Helium-SR3

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## 6.451 yangtools-features-yangtools-feature

### 0.6.5-Helium-SR3

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# 6.452 yangtools-model-iana-afn-safi

## 2013.07.04.7.2-Lithium-SR2

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# 6.453 yangtools-model-iana-if-type-2014-05-08 2014.05.08.7.2-Lithium-SR2

## 6.454 yangtools-model-ietf-restconf 2013.10.19.1.3-Helium

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# 6.455 yangtools-model-ietf-topology

## 2013.10.21.3-Helium

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## 6.456 yangtools-model-ietf-yang-types

### 2010.09.24.4.3-Helium

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## 6.457 yangtools-model-ietf-yang-types-20130715 2013.07.15.1.3-Helium

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# 6.458 yangtools-model-opendaylight-l2-types

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## 6.459 yangtools-model-yang-ext

### 2013.09.07.4.3-Helium

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# 6.460 yangtools-object-cache-api 0.6.5- Helium-SR3

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## 6.461 yangtools-object-cache-guava .6.5-

### Helium-SR3

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## 6.462 yangtools-object-cache-noop 0.6.5- Helium-SR3

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# 6.463 yangtools-restconf-client 0.6.5-Helium-SR3

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## 6.464 yangtools-restconf-client-impl 0.6.5-Helium-SR3

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## 6.465 yangtools-restconf-common 0.6.5- Helium-SR3

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# 6.466 yangtools-restconf-jaxrs-api 0.6.5- Helium-SR3

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## 6.467 yangtools-restconf-util 0.6.5-Helium-SR3

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## 6.468 yangtools-thirdparty-antlr4-runtime-osgi-nohead 4.0

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# 6.469 yangtools-thirdparty-xtend-lib-osgi

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## 6.470 yangtools-util 0.6.5-Helium

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## 6.471 yangtools-util 0.7.2-Lithium-SR2

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# 6.472 yangtools-websocket-client 0.6.5- Helium-SR3

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## 6.473 yangtools-yang binding 0.6.5-Helium-SR3

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## 6.474 yangtools-yang-common 0.6.5-Helium-SR3

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# 6.475 yangtools-yang-data-api 0.6.5-Helium-SR3

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## 6.476 yangtools-yang-data-codec-gson 0.6.5-Helium-SR3

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## 6.477 yangtools-yang-data-composite-node

### 0.6.5-Helium-SR3

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# 6.478 yangtools-yang-data-impl 0.6.5-Helium-SR3

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## 6.479 yangtools-yang-data-operations 0.6.5-Helium-SR3

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## 6.480 yangtools-yang-data-util 0.6.5-Helium-SR3

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# 6.481 yangtools-yang-maven-plugin-spi 0.7.2-Lithium-SR2

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## 6.482 yangtools-yang-maven-plugin-spi 0.6.5-Helium-SR3

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## 6.483 yangtools-yang-model-api 0.6.5-Helium-SR3

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# 6.484 yangtools-yang-model-util 6.5-Helium-SR3



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## 6.485 yangtools-yang-parser-api :0.6.5-Helium-SR3

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## 6.486 yangtools-yang-parser-impl 0.6.5-Helium-SR3

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# 6.487 zkclient 0.3

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## 6.488 zookeeper 3.4.6

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include/winstdint.h is included only for Windows Client support, as follows:

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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# 7.1 ansible 1.9.2

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Version 3, 29 June 2007

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```
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```

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```

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```
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## 7.23 elasticsearch 1.4.4

### 7.23.1 Available under license :

```
cat elasticsearch-setup-1.4.4/elasticsearch-setup-1.4.4/jre.js
// developed by Rui Lopes (ruilopes.com). licensed under GPLv3.

// TODO set a global timeout and abort the process if it expires.
/* Windows Setup Helper functions.
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```
// TODO On Windows 7+ or Windows 2008 R2+ use NetAddServiceAccount,  
// NetRemoveServiceAccount and NetIsServiceAccount.  
// NB When we do this, we MUST also stop generating a service password  
// in the setup (managed service accounts do not have a password).
```

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## 7.37 Gson 2.3.1

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```

```
package com.google.gson.internal;
```

```

import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {
    private Primitives() {}

    /** A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

    /** A map from wrapper types to their corresponding primitive types. */
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

    // Sad that we can't use a BiMap. :(

    static {
        Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
        Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);

        add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
        add(primToWrap, wrapToPrim, byte.class, Byte.class);
        add(primToWrap, wrapToPrim, char.class, Character.class);
        add(primToWrap, wrapToPrim, double.class, Double.class);
        add(primToWrap, wrapToPrim, float.class, Float.class);
        add(primToWrap, wrapToPrim, int.class, Integer.class);
        add(primToWrap, wrapToPrim, long.class, Long.class);
        add(primToWrap, wrapToPrim, short.class, Short.class);
        add(primToWrap, wrapToPrim, void.class, Void.class);

        PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
        WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
    }

    private static void add(Map<Class<?>, Class<?>> forward,
        Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
        forward.put(key, value);
        backward.put(value, key);
    }
}

```

```

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns {@code true} if {@code type} is one of the nine
 * primitive-wrapper types, such as {@link Integer}.
 *
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
}

/**
 * Returns the corresponding wrapper type of {@code type} if it is a primitive
 * type; otherwise returns {@code type} itself. Idempotent.
 * <pre>
 *   wrap(int.class) == Integer.class
 *   wrap(Integer.class) == Integer.class
 *   wrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of {@code type} if it is a
 * wrapper type; otherwise returns {@code type} itself. Idempotent.
 * <pre>
 *   unwrap(Integer.class) == int.class
 *   unwrap(int.class) == int.class
 *   unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(

```

```
$Gson$Preconditions.checkNotNull(type));  
return (unwrapped == null) ? type : unwrapped;  
}  
}
```

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## 7.40 Guava: Google Core Libraries for Java

### 18.0

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## 7.57 JCraft JSch 0.1.52

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## 7.58 jersey container servlet 2.6

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 \*/

```
package org.glassfish.jersey.servlet.async;
```

```
import java.util.concurrent.atomic.AtomicReference;
```

```
import javax.servlet.AsyncContext;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.glassfish.jersey.servlet.spi.AsyncContextDelegate;
import org.glassfish.jersey.servlet.spi.AsyncContextDelegateProvider;
```

```
/**
 * Servlet 3.x container response writer async extension and related extension factory implementation.
 *
 * @author Jakub Podlesak (jakub.podlesak at oracle.com)
 * @author Marek Potociar (marek.potociar at oracle.com)
 */
public class AsyncContextDelegateProviderImpl implements AsyncContextDelegateProvider {
```

```
    @Override
```

```

public final AsyncContextDelegate createDelegate(final HttpServletRequest request, final HttpServletResponse
response) {
    return new ExtensionImpl(request, response);
}

private static final class ExtensionImpl implements AsyncContextDelegate {

    private static final int NEVER_TIMEOUT_VALUE = -1;

    private final HttpServletRequest request;
    private final HttpServletResponse response;
    private final AtomicReference<AsyncContext> asyncContextRef;

    /**
     * Create a Servlet 3.x { @link AsyncContextDelegate } with given { @code request } and { @code response }.
     *
     * @param request request to create { @link AsyncContext } for.
     * @param response response to create { @link AsyncContext } for.
     */
    private ExtensionImpl(final HttpServletRequest request, final HttpServletResponse response) {
        this.request = request;
        this.response = response;
        this.asyncContextRef = new AtomicReference<AsyncContext>();
    }

    @Override
    public void suspend() throws IllegalStateException {
        final AsyncContext asyncContext = request.startAsync(request, response);

        // Tell underlying asyncContext to never time out.
        asyncContext.setTimeout(NEVER_TIMEOUT_VALUE);

        asyncContextRef.set(asyncContext);
    }

    @Override
    public void complete() {
        final AsyncContext asyncContext = asyncContextRef.getAndSet(null);
        if (asyncContext != null) {
            asyncContext.complete();
        }
    }
}

```

# 7.59 jersey-client 2.6

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## 7.65 jersey-server 2.6

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 \*/

```
package org.glassfish.jersey.server.wadl.internal.generators;
```

```
import java.io.File;
import java.io.FileInputStream;
import java.io.InputStream;
import java.util.List;
```

```
import javax.ws.rs.core.Context;
import javax.ws.rs.core.MediaType;
```

```
import javax.inject.Provider;
import javax.xml.parsers.SAXParserFactory;
```

```
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;
import org.glassfish.jersey.server.wadl.internal.WadlUtils;
```

```
import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Method;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;
```

```
/**
```

```
* This { @link org.glassfish.jersey.server.wadl.WadlGenerator } adds all doc elements provided by { @link  

ApplicationDocs#getDocs() }  

* to the generated wadl-file.
```

```
* <p>
```

```
* The { @link ApplicationDocs } content can either be provided via a { @link File } reference
```



```

* ({ @link #setApplicationDocsFile(File)}) or
* via an { @link InputStream } ({ @link #setApplicationDocsStream(InputStream)}).
* </p>
* <p>
* The { @link File } should be used when using the maven-wadl-plugin for generating wadl offline,
* the { @link InputStream } should be used when the extended wadl is generated by jersey at runtime, e.g.
* using the { @link org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig } for configuration.
* </p>
*
* Created on: Jun 16, 2008<br>
*
* @author Martin Grotzke (martin.grotzke at freiheit.com)
*/

```

```

public class WadlGeneratorApplicationDoc implements WadlGenerator {

    private WadlGenerator _delegate;
    private File _applicationDocsFile;
    private InputStream _applicationDocsStream;
    private ApplicationDocs _applicationDocs;
    @Context
    private Provider<SAXParserFactory> saxFactoryProvider;

    public void setWadlGeneratorDelegate(WadlGenerator delegate) {
        _delegate = delegate;
    }

    public String getRequiredJaxbContextPath() {
        return _delegate.getRequiredJaxbContextPath();
    }

    public void setApplicationDocsFile(File applicationDocsFile) {
        if (_applicationDocsStream != null) {
            throw new IllegalStateException("The applicationDocsStream property is already set," +
                " therefore you cannot set the applicationDocsFile property. Only one of both can be set at a time.");
        }
        _applicationDocsFile = applicationDocsFile;
    }

    public void setApplicationDocsStream(InputStream applicationDocsStream) {
        if (_applicationDocsFile != null) {
            throw new IllegalStateException("The applicationDocsFile property is already set," +
                " therefore you cannot set the applicationDocsStream property. Only one of both can be set at a time.");
        }
        _applicationDocsStream = applicationDocsStream;
    }
}

```

```

public void init() throws Exception {
    if (_applicationDocsFile == null && _applicationDocsStream == null) {
        throw new IllegalStateException("Neither the applicationDocsFile nor the applicationDocsStream" +
            " is set, one of both is required.");
    }
    _delegate.init();

    InputStream inputStream;
    if (_applicationDocsFile != null) {
        inputStream = new FileInputStream(_applicationDocsFile);
    } else {
        inputStream = _applicationDocsStream;
    }
    _applicationDocs = WadUtils.unmarshall(inputStream, saxFactoryProvider.get(), ApplicationDocs.class);
}

/**
 * @return the application
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createApplication()
 */
public Application createApplication() {
    final Application result = _delegate.createApplication();
    if (_applicationDocs != null && _applicationDocs.getDocs() != null &&
        !_applicationDocs.getDocs().isEmpty()) {
        result.getDoc().addAll(_applicationDocs.getDocs());
    }
    return result;
}

/**
 * @param r
 * @param m
 * @return the method
 * @see
 * org.glassfish.jersey.server.wadl.WadlGenerator#createMethod(org.glassfish.jersey.server.model.Resource,
 *     org.glassfish.jersey.server.model.ResourceMethod)
 */
public Method createMethod(org.glassfish.jersey.server.model.Resource r,
    org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createMethod(r, m);
}

/**
 * @param r
 * @param m
 * @param mediaType
 * @return representation type
 * @see

```

```

org.glassfish.jersey.server.wadl.WadlGenerator#createRequestRepresentation(org.glassfish.jersey.server.model.Resource,
    org.glassfish.jersey.server.model.ResourceMethod, javax.ws.rs.core.MediaType)
*/
public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
    org.glassfish.jersey.server.model.ResourceMethod m,
    MediaType mediaType) {
    return _delegate.createRequestRepresentation(r, m, mediaType);
}

/**
 * @param r
 * @param m
 * @return request
 * @see
org.glassfish.jersey.server.wadl.WadlGenerator#createRequest(org.glassfish.jersey.server.model.Resource,
    org.glassfish.jersey.server.model.ResourceMethod)
*/
public Request createRequest(org.glassfish.jersey.server.model.Resource r,
    org.glassfish.jersey.server.model.ResourceMethod
        m) {
    return _delegate.createRequest(r, m);
}

/**
 * @param r
 * @param m
 * @param p
 * @return parameter
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createParam(org.glassfish.jersey.server.model.Resource,
    org.glassfish.jersey.server.model.ResourceMethod, org.glassfish.jersey.server.model.Parameter)
*/
public Param createParam(org.glassfish.jersey.server.model.Resource r,
    org.glassfish.jersey.server.model.ResourceMethod m,
    Parameter p) {
    return _delegate.createParam(r, m, p);
}

/**
 * @param r
 * @param path
 * @return resource
 * @see
org.glassfish.jersey.server.wadl.WadlGenerator#createResource(org.glassfish.jersey.server.model.Resource, String)
*/
public Resource createResource(org.glassfish.jersey.server.model.Resource r, String path) {
    return _delegate.createResource(r, path);
}

```

```

/**
 * @param r
 * @param m
 * @return response
 * @see
org.glassfish.jersey.server.wadl.WadlGenerator#createResponses(org.glassfish.jersey.server.model.Resource,
 * org.glassfish.jersey.server.model.ResourceMethod)
 */
public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r,
                                     org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createResponses(r, m);
}

/**
 * @return resources
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createResources()
 */
public Resources createResources() {
    return _delegate.createResources();
}

// ===== methods for post build actions =====

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    return _delegate.createExternalGrammar();
}

@Override
public void attachTypes(ApplicationDescription egd) {
    _delegate.attachTypes(egd);
}
}
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*/
package org.glassfish.jersey.server.wadl.internal.generators;

import java.util.ArrayList;
import java.util.List;

import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorType;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlType;

import com.sun.research.ws.wadl.Doc;

/**
 * The wrapper root document for multiple { @link Doc } elements.
 * Created on: Jun 10, 2008<br>
 *
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 */
@XmlAccessorType(XmlAccessType.FIELD)
@XmlType(name = "applicationDocs", propOrder = {
    "docs"
})

```

```

@XmlRootElement(name = "applicationDocs")
public class ApplicationDocs {

    @XmlElement(name = "doc" )
    protected List<Doc> docs;

    public List<Doc> getDocs() {
        if (docs == null) {
            docs = new ArrayList<Doc>();
        }
        return this.docs;
    }
}
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```

```
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* holder.
*/
```

```
package org.glassfish.jersey.server.wadl.internal;
```

```
import java.util.ArrayList;
import java.util.List;
```

```
import javax.ws.rs.core.MediaType;
```

```
import javax.xml.namespace.QName;
```

```
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.model.ResourceMethod;
import org.glassfish.jersey.server.wadl.WadlGenerator;
```

```
import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.ParamStyle;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;
```

```
/**
 * This WadlGenerator creates the basic wadl artifacts.<br>
 * Created on: Jun 16, 2008<br>
 *
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public class WadlGeneratorImpl implements WadlGenerator {
```

```
    @Override
```

```
    public String getRequiredJaxbContextPath() {
        final String name = Application.class.getName();
        return name.substring(0, name.lastIndexOf('.'));
    }
```

```
    @Override
```

```
    public void init() {
    }
```

```

@Override
public void setWadlGeneratorDelegate(WadlGenerator delegate) {
    throw new UnsupportedOperationException("No delegate supported.");
}

@Override
public Resources createResources() {
    return new Resources();
}

@Override
public Application createApplication() {
    return new Application();
}

@Override
public com.sun.research.ws.wadl.Method createMethod(
    org.glassfish.jersey.server.model.Resource r, final ResourceMethod m) {
    com.sun.research.ws.wadl.Method wadlMethod =
        new com.sun.research.ws.wadl.Method();
    wadlMethod.setName(m.getHttpMethod());
    wadlMethod.setId(m.getInvocable().getDefinitionMethod().getName());
    if (m.isExtended()) {
        wadlMethod.getAny().add(WadlApplicationContextImpl.extendedElement);
    }
    return wadlMethod;
}

@Override
public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
    ResourceMethod m, MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

@Override
public Request createRequest(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    return new Request();
}

@Override
public Param createParam(org.glassfish.jersey.server.model.Resource r, ResourceMethod m, final Parameter p) {
    if (p.getSource() == Parameter.Source.UNKNOWN)
        return null;

    Param wadlParam = new Param();

```



```

wdlParam.setName(p.getSourceName());

switch (p.getSource()) {
    case FORM:
        wdlParam.setStyle(ParamStyle.QUERY);
        break;
    case QUERY:
        wdlParam.setStyle(ParamStyle.QUERY);
        break;
    case MATRIX:
        wdlParam.setStyle(ParamStyle.MATRIX);
        break;
    case PATH:
        wdlParam.setStyle(ParamStyle.TEMPLATE);
        break;
    case HEADER:
        wdlParam.setStyle(ParamStyle.HEADER);
        break;
    case COOKIE:
        // Generates name="Cookie" path="<name>"
        wdlParam.setStyle(ParamStyle.HEADER);
        wdlParam.setName("Cookie");
        wdlParam.setPath(p.getSourceName());
        break;
    default:
        break;
}

if (p.hasDefaultValue())
    wdlParam.setDefault(p.getDefaultValue());
Class<?> pClass = p.getRawType();
if (pClass.isArray()) {
    wdlParam.setRepeating(true);
    pClass = pClass.getComponentType();
}
if (pClass.equals(int.class) || pClass.equals(Integer.class))
    wdlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "int", "xs"));
else if (pClass.equals(boolean.class) || pClass.equals(Boolean.class))
    wdlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "boolean", "xs"));
else if (pClass.equals(long.class) || pClass.equals(Long.class))
    wdlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "long", "xs"));
else if (pClass.equals(short.class) || pClass.equals(Short.class))
    wdlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "short", "xs"));
else if (pClass.equals(byte.class) || pClass.equals(Byte.class))
    wdlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "byte", "xs"));
else if (pClass.equals(float.class) || pClass.equals(Float.class))
    wdlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "float", "xs"));
else if (pClass.equals(double.class) || pClass.equals(Double.class))

```

```

        wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "double", "xs"));
    else
        wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "string", "xs"));
    return wadlParam;
}

@Override
public Resource createResource(org.glassfish.jersey.server.model.Resource resource, String path) {
    Resource wadlResource = new Resource();
    if (path != null) {
        wadlResource.setPath(path);
    } else if (resource.getPath() != null) {
        wadlResource.setPath(resource.getPath());
    }

    if (resource.isExtended()) {

        wadlResource.getAny().add(WadlApplicationContextImpl.extendedElement);
    }

    return wadlResource;
}

@Override
public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    final Response response = new Response();

    for (MediaType mediaType : m.getProducedTypes()) {
        if (!MediaType.WILDCARD_TYPE.equals(mediaType)
            || !hasEmptyProducibleMediaTypeSet(m)) {
            Representation wadlRepresentation = createResponseRepresentation(r, m, mediaType);
            response.getRepresentation().add(wadlRepresentation);
        }
    }

    List<Response> responses = new ArrayList<Response>();
    responses.add(response);
    return responses;
}

private boolean hasEmptyProducibleMediaTypeSet(final ResourceMethod method) {
    return method.getProducedTypes().isEmpty();
}

public Representation createResponseRepresentation(org.glassfish.jersey.server.model.Resource r,
ResourceMethod m,
MediaTypes mediaTypes) {

```

```

    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

// ===== methods for post build actions =====

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    // Return an empty list to add to
    return new ExternalGrammarDefinition();
}

@Override
public void attachTypes(ApplicationDescription egd) {
}
}
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* holder.
*/
package org.glassfish.jersey.server.wadl.internal;

import java.util.Set;

import javax.ws.rs.core.MediaType;

import javax.xml.namespace.QName;

import org.glassfish.jersey.server.wadl.WadlGenerator;

import com.sun.research.ws.wadl.Application;

/**
 * This class is designed to combine the Application instance with any other
 * external metadata that might be required to describe the application.
 *
 * @author Gerard Davison
 */
public class ApplicationDescription {

    private Application _application;
    private WadlGenerator.ExternalGrammarDefinition _externalGrammarDefiniton;

    ApplicationDescription(Application application, WadlGenerator.ExternalGrammarDefinition
externalGrammarDefiniton) {
        super();
        this._application = application;
        this._externalGrammarDefiniton = externalGrammarDefiniton;
    }

    /**
     * @return The instance of the application object
     */
    public Application getApplication() {
        return _application;
    }

    /**
     * @param type java class to be resolved.

```

```

    * @return the QName for the given Class in the grammar.
    */
    public QName resolve(Class type) {
        return _externalGrammarDefiniton.resolve(type);
    }

    /**
     * @param path path to external metadata.
     * @return the external metadata for a given URL, generally provided as a sub resource
     *         or the root application.wadl.
     */
    public ExternalGrammar getExternalGrammar(String path) {
        return _externalGrammarDefiniton.map.get(path);
    }

    /**
     * @return A set of all the external metadata keys
     */
    public Set<String> getExternalMetadataKeys() {
        return _externalGrammarDefiniton.map.keySet();
    }

    /**
     * A simple holder class that stores a type and binary content
     * to be used to return extra metadata with
     */
    public static class ExternalGrammar {

        private MediaType _type;
        private byte[] _content;

        public ExternalGrammar(MediaType type, byte[] content) {
            super();
            this._type = type;
            this._content = content.clone();
        }

        public MediaType getType() {
            return _type;
        }

        public byte[] getContent() {
            // Defensive copy
            return _content.clone();
        }
    }
}

```

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 * holder.
 */
```

```
package org.glassfish.jersey.server.wadl.internal;
```

```
import java.net.URI;
import java.security.AccessController;
import java.util.logging.Level;
import java.util.logging.Logger;

import javax.ws.rs.ProcessingException;
```

```

import javax.ws.rs.core.Configuration;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.UriBuilder;
import javax.ws.rs.core.UriInfo;

import javax.xml.bind.JAXBContext;
import javax.xml.bind.JAXBElement;
import javax.xml.bind.JAXBException;
import javax.xml.namespace.QName;

import org.glassfish.jersey.internal.util.ReflectionHelper;
import org.glassfish.jersey.server.ExtendedResourceContext;
import org.glassfish.jersey.server.internal.LocalizationMessages;
import org.glassfish.jersey.server.wadl.WadlApplicationContext;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig;
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfigLoader;

import org.glassfish.hk2.api.ServiceLocator;

import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Doc;
import com.sun.research.ws.wadl.Grammars;
import com.sun.research.ws.wadl.Include;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;

/**
 * WADL application context implementation.
 *
 * @author Paul Sandoz (paul.sandoz at oracle.com)
 */
public class WadlApplicationContextImpl implements WadlApplicationContext {

    private static final Logger LOGGER = Logger.getLogger(WadlApplicationContextImpl.class.getName());

    static final String WADL_JERSEY_NAMESPACE = "http://jersey.java.net/";
    public static final JAXBElement extendedElement = new JAXBElement<String>(
        new QName(WADL_JERSEY_NAMESPACE, "extended", "jersey"), String.class, "true");

    @Context
    private ExtendedResourceContext resourceContext;

    private final ServiceLocator serviceLocator;

    private boolean wadlGenerationEnabled = true;

```

```

private final WadlGeneratorConfig wadlGeneratorConfig;

private final JAXBContext jaxbContext;

public WadlApplicationContextImpl(@Context Configuration configuration, @Context ServiceLocator
serviceLocator) {
    this.serviceLocator = serviceLocator;
    this.wadlGeneratorConfig =
WadlGeneratorConfigLoader.loadWadlGeneratorsFromConfig(configuration.getProperties());

    // TODO perhaps this should be done another way for the moment
    // create a temporary generator just to do this one task
    final WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);

    JAXBContext jaxbContextCandidate;

    final ClassLoader contextClassLoader =
AccessController.doPrivileged(ReflectionHelper.getContextClassLoaderPA());
    try {
        // Nasty ClassLoader magic. JAXB-API has some strange limitation about what classloader can
        // be used in OSGi environment - it must be same as context ClassLoader. Following code just
        // workarounds this limitation
        // see JERSEY-1818
        // see JSR222-46

        final ClassLoader jerseyModuleClassLoader =
            AccessController.doPrivileged(ReflectionHelper.getClassLoaderPA(wadlGenerator.getClass()));

        AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(jerseyModuleClassLoader));

        jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath(),
jerseyModuleClassLoader);

    } catch (JAXBException ex) {
        try {
            // fallback for glassfish
            LOGGER.log(Level.FINE, LocalizationMessages.WADL_JAXB_CONTEXT_FALLBACK(), ex);
            jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath());
        } catch (JAXBException innerEx) {
            throw new ProcessingException(LocalizationMessages.ERROR_WADL_JAXB_CONTEXT(), ex);
        }
    } finally {
        AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(contextClassLoader));
    }

    jaxbContext = jaxbContextCandidate;
}

```



```

@Override
public ApplicationDescription getApplication(UriInfo uriInfo, boolean detailedWadl) {
    ApplicationDescription applicationDescription = getWadlBuilder(detailedWadl, uriInfo)
        .generate(resourceContext.getResourceModel().getRootResources());
    final Application application = applicationDescription.getApplication();
    for (Resources resources : application.getResources()) {
        if (resources.getBase() == null) {
            resources.setBase(uriInfo.getBaseUri().toString());
        }
    }
    attachExternalGrammar(application, applicationDescription, uriInfo.getRequestUri());
    return applicationDescription;
}

```

```

@Override
public Application getApplication(UriInfo info,
    org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl) {

    // Get the root application description
    //

    ApplicationDescription description = getApplication(info, detailedWadl);

    WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);
    Application application = new WadlBuilder(wadlGenerator, detailedWadl, info).generate(description, resource);
    if (application == null) {
        return null;
    }

    for (Resources resources : application.getResources()) {
        resources.setBase(info.getBaseUri().toString());
    }

    // Attach any grammar we may have

    attachExternalGrammar(application, description,
        info.getRequestUri());

    for (Resources resources : application.getResources()) {
        final Resource r = resources.getResource().get(0);
        r.setPath(info.getBaseUri().relativize(info.getAbsolutePath()).toString());

        // remove path params since path is fixed at this point
        r.getParam().clear();
    }

    return application;
}

```

```

// TODO probably no longer required
@Override
public JAXBContext getJAXBContext() {
    return jaxbContext;
}

private WadlBuilder getWadlBuilder(boolean detailedWadl, UriInfo uriInfo) {
    return (this.wadlGenerationEnabled ? new
WadlBuilder(wadlGeneratorConfig.createWadlGenerator(serviceLocator),
    detailedWadl, uriInfo) : null);
}

@Override
public void setWadlGenerationEnabled(boolean wadlGenerationEnabled) {
    this.wadlGenerationEnabled = wadlGenerationEnabled;
}

@Override
public boolean isWadlGenerationEnabled() {
    return wadlGenerationEnabled;
}

/**
 * Update the application object to include the generated grammar objects
 */
private void attachExternalGrammar(
    Application application,
    ApplicationDescription applicationDescription,
    URI requestURI) {

    // Massage the application.wadl URI slightly to get the right effect
    //

    try {
        final String requestURIPath = requestURI.getPath();

        if (requestURIPath.endsWith("application.wadl")) {
            requestURI = UriBuilder.fromUri(requestURI)
                .replacePath(
                    requestURIPath
                        .substring(0, requestURIPath.lastIndexOf('/') + 1))
                .build();
        }

        String root = application.getResources().get(0).getBase();
        UriBuilder extendedPath = root != null ?

```

```

        UriBuilder.fromPath(root).path("/application.wadl/")
        : UriBuilder.fromPath("./application.wadl/");
URI rootURI = root != null ? UriBuilder.fromPath(root).build() : null;

// Add a reference to this grammar
//

Grammars grammars;
if (application.getGrammars() != null) {
    LOGGER.info(LocalizationMessages.ERROR_WADL_GRAMMAR_ALREADY_CONTAINS());
    grammars = application.getGrammars();
} else {
    grammars = new Grammars();
    application.setGrammars(grammars);
}

// Create a reference back to the root WADL
//

for (String path : applicationDescription.getExternalMetadataKeys()) {
    URI schemaURI =
        extendedPath.clone().path(path).build();

    String schemaPath = rootURI != null ?
        requestURI.relativize(schemaURI).toString()
        : schemaURI.toString();

    Include include = new Include();
    include.setHref(schemaPath);
    Doc doc = new Doc();
    doc.setLang("en");
    doc.setTitle("Generated");
    include.getDoc().add(doc);

    // Finally add to list
    grammars.getInclude().add(include);
}
} catch (Exception e) {
    throw new ProcessingException(LocalizationMessages.ERROR_WADL_EXTERNAL_GRAMMAR(), e);
}
}
}
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\*/  
package org.glassfish.jersey.server.wadl;  
  
import javax.ws.rs.core.UriInfo;  
  
import javax.xml.bind.JAXBContext;  
  
import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;  
  
import com.sun.research.ws.wadl.Application;  
  
/\*\*  
\* A context to obtain WADL-based information.  
\*  
\* @author Paul.Sandoz

```

*/
public interface WadlApplicationContext {
// /**
// * Get a WADL builder initiated with the configured { @link WadlGenerator}
// * for the Web application.
// *
// * @return the WADL builder.
// */
// WadlBuilder getWadlBuilder();

// /**
// * Get a new instance of a { @link ApplicationDescription} corresponding to all
// * the root resource classes.
// *
// * @return the application description, the contents may be modified.
// */
// ApplicationDescription getApplication();

/**
 * Get a new instance of a { @link ApplicationDescription} corresponding to all
 * the root resource classes, and configure the base URI.
 *
 * @param ui the URI information from which the base URI is set on the
 * WADL application.
 * @return the application description, the contents may be modified.
 */
ApplicationDescription getApplication(UriInfo ui, boolean detailedWadl);

/**
 * Get a new instance of { @link Application} for a particular resource.
 *
 * @param info the URI information from which the base URI is set on the
 * WADL application.
 * @param resource the resource to build the Application for
 * @return the application for this resource
 */
Application getApplication(UriInfo info,
    org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl);

/**
 * Get the default JAXB context associated with the { @link WadlGenerator}
 * for the Web application.
 *
 * @return the default JAXB context.
 */
JAXBContext getJAXBContext();

```

```

// /**
//  * Get the default JAXB context path to create a {@link JAXBContext}.
//  *
//  * @return the default JAXB context.
//  */
// String getJAXBContextPath();

/**
 * Enable/disable WADL generation.
 *
 * @param wadlGenerationEnabled if wadlGenerationEnabled is true and
 *      {@link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 *      is false, WADL generation is enabled. In all other cases is disabled.
 */
void setWadlGenerationEnabled(boolean wadlGenerationEnabled);

/**
 * Get WADL generation status.
 *
 * @return true when WADL generation is enabled. Does not take
 *      {@link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 */
boolean isWadlGenerationEnabled();
}
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*/
```

```
package org.glassfish.jersey.server.monitoring;
```

```
import java.util.Date;
import java.util.Map;
import java.util.Set;
```

```
/**
```

```
 * Application MX Bean.
```

```
 *
```

```
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
```

```
 */
```

```
public interface ApplicationMXBean {
```

```
    /**
```

```
     * Get the application name.
```

```
     *
```

```
     * @return Application name.
```

```
     */
```

```
    public String getApplicationName();
```

```
    /**
```

```
     * Get the { @link javax.ws.rs.core.Application application class } used for configuration of Jersey application.
```

```
     *
```

```
     * @return Application class name.
```

```
     */
```

```
    public String getApplicationClass();
```

```
    /**
```

```
     * Get the map of configuration properties converted to strings.
```

```
     *
```

```
     * @return Map property keys to property string values.
```

```
     */
```

```
    public Map<String, String> getProperties();
```

```

/**
 * Get the start time of the application (when application was initialized).
 *
 * @return Application start time.
 */
public Date getStartTime();

/**
 * Get a set of string names of resource classes registered by the user.
 *
 * @return Set of classes full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredClasses() for specification
 * of returned classes.
 */
public Set<String> getRegisteredClasses();

/**
 * Get a set of string names of classes of user registered instances.
 *
 * @return Set of user registered instances converted to their class full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredInstances()
 * for specification of returned instances.
 */
public Set<String> getRegisteredInstances();

/**
 * Get classes of registered providers.
 *
 * @return Set of provider class full names (with packages names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getProviders() for specification
 * of returned classes.
 */
public Set<String> getProviderClasses();
}
/*
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*/

```

```
package org.glassfish.jersey.server.monitoring;
```

```
import java.util.Set;
```

```
import org.glassfish.jersey.server.ResourceConfig;
import org.glassfish.jersey.server.model.ResourceModel;
```

```
/**
```

```

* An event informing about application lifecycle changes. The event is created by Jersey runtime and
* handled by user registered { @link ApplicationEventListener application event listener }.
* <p/>
* The event contains the { @link Type } which distinguishes between types of event. There are various
* properties in the event (accessible by getters) and some of them might be relevant only to specific event types.
* <p/>
* Note that internal state of the event must be modified. Even the event is immutable it exposes objects
* which might be mutable and the code of event listener must not change state of these objects.
*
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
*/

```

```
public interface ApplicationEvent {
```

```

/**
 * The type of the event that identifies on which lifecycle change the event is triggered.
 */
public static enum Type {
    /**
     * Initialization of the application has started. In this point no all the event properties
     * are initialized yet.
     */
    INITIALIZATION_START,
    /**
     * Initialization of { @link org.glassfish.jersey.server.ApplicationHandler jersey application } is
     * finished but the server might not be started and ready yet to serve requests (this will be
     * indicated by the { @link #INITIALIZATION_FINISHED } event). This event indicates only that the
     * environment is ready (all providers are registered, application is configured, etc.).
     *
     * @since 2.5
     */
    INITIALIZATION_APP_FINISHED,
    /**
     * Initialization of the application has finished, server is started and application is ready
     * to handle requests now.
     */
    INITIALIZATION_FINISHED,
    /**
     * Application has been destroyed (stopped). In this point the application cannot process any new requests.
     */
    DESTROY_FINISHED,
    /**
     * The application reload is finished. The reload can be invoked by
     * { @link org.glassfish.jersey.server.spi.Container#reload() } method. When this event is triggered
     * the reload is completely finished, which means that the new application is initialized (appropriate
     * events are called) and new reloaded application is ready to server requests.
     */
    RELOAD_FINISHED
}

/**
 * Return the type of the event.
 *
 * @return Event type.
 */
public Type getType();

/**
 * Get resource config associated with the application. The resource config is set for all event types.
 *
 * @return Resource config on which this application is based on.

```

```

*/
public ResourceConfig getResourceConfig();

/**
 * Get resource classes registered by the user in the current application. The set contains only
 * user resource classes and not resource classes added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource user registered classes.
 */
public Set<Class<?>> getRegisteredClasses();

/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource instances registered by user.
 */
public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers
 * are providers like { @link org.glassfish.jersey.server.model.MethodList.Filter filters},
 * { @link javax.ws.rs.ext.ReaderInterceptor reader} and { @link javax.ws.rs.ext.WriterInterceptor writer}
 * interceptors which are explicitly registered by configuration, or annotated by
 * { @link javax.ws.rs.ext.Provider @Provider} or registered in META-INF/services. The
 * set does not include providers that are by default built in Jersey.
 *
 * @return Set of provider classes.
 */
public Set<Class<?>> getProviders();

/**
 * Get the resource model of the application. The method returns null for
 * { @link Type#INITIALIZATION_START} event type as the resource model is not initialized yet.
 * The returned resource model is the final deployed model including resources enhanced by
 * { @link org.glassfish.jersey.server.model.ModelProcessor model processors}.
 *
 * @return Resource model of the deployed application.

```

```

*/
public ResourceModel getResourceModel();

}
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package org.glassfish.jersey.server.monitoring;

import javax.ws.rs.ConstrainedTo;
import javax.ws.rs.RuntimeType;

```

```

import org.glassfish.jersey.spi.Contract;

/**
 * Jersey specific provider that listens to { @link ApplicationEvent application events }.
 * The implementation of this interface will be called for two kind of events:
 * application events and { @link RequestEvent request events }. This interface will listen to
 * all { @link org.glassfish.jersey.server.monitoring.ApplicationEvent.Type application event types }
 * but only to first request event which is the { @link RequestEvent.Type#START }. On this event the
 * application event listener can decide whether it will listen to the request and return { @link RequestEventListener
 * request event listener } for listening to further request events.
 * }
 * <p/>
 * The implementation of this interface can be registered as a standard Jersey/JAX-RS provider
 * by annotating with { @link javax.ws.rs.ext.Provider @Provider } annotation in the case of
 * class path scanning, by registering as a provider using { @link org.glassfish.jersey.server.ResourceConfig }
 * or by returning from { @link javax.ws.rs.core.Application#getClasses() }
 * or { @link javax.ws.rs.core.Application#getSingletons() }. The provider can be registered only on the server
 * side.
 * <p/>
 * Application event listener can read data of events but must not modify them in any way. The implementation
 * must be thread safe (the methods might be called from different threads).
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
@Contract
@ConstrainedTo(RuntimeType.SERVER)
public interface ApplicationEventListener {
    /**
     * Process the application { @code event }. This method is called when new event occurs.
     *
     * @param event Application event.
     */
    public void onEvent(ApplicationEvent event);

    /**
     * Process a new request and return a { @link RequestEventListener request event listener } if
     * listening to { @link RequestEvent request events } is required. The method is called once for
     * each new incoming request. If listening to the request is required then request event must be returned
     * from the method. Such a request event listener will receive all request events that one request. If listening
     * to request event for the request is not required then { @code null } must be returned
     * from the method (do not return empty mock listener in these
     * cases as it will have negative performance impact).
     *
     * @param requestEvent Event of type { @link RequestEvent.Type#START }.
     * @return Request event listener that will monitor the events of the request
     * connected with { @code requestEvent }; null otherwise.
     */
}

```

```

    public RequestEventListener onRequest(RequestEvent requestEvent);
}
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 * holder.
 */

package org.glassfish.jersey.server.monitoring;

import java.util.Date;
import java.util.Set;

import org.glassfish.jersey.server.ResourceConfig;

```

```

/**
 * Monitoring statistics and configuration of an application.
 * <p/>
 * Statistics retrieved from Jersey runtime might be mutable and thanks to it might provide inconsistent data
 * as not all statistics are updated in the same time. To retrieve the immutable and consistent
 * statistics data the method { @link #snapshot()} should be used.
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 * @see MonitoringStatistics See MonitoringStatistics class for general details about statistics.
 */
public interface ApplicationStatistics {
    /**
     * Get the resource config.
     *
     * @return Resource config.
     */
    public ResourceConfig getResourceConfig();

    /**
     * Get the start time of the application.
     *
     * @return Time when an application initialization has been finished.
     */
    public Date getStartTime();

    /**
     * Get the time when application destroy (stop) has been finished.
     *
     * @return Destroy time.
     *
     * @deprecated deprecated since 2.5 (destroy time will always be { @code null}). Use
     * { @link
     org.glassfish.jersey.server.spi.ContainerLifecycleListener#onShutdown(org.glassfish.jersey.server.spi.Container)}
     * to listen on the destroy.
     */
    public Date getDestroyTime();

    /**
     * Get resource classes registered by the user in the current application. The set contains only
     * user resource classes and not resource classes added by Jersey
     * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
     * <p/>
     * User resources are resources that
     * were explicitly registered by the configuration, discovered by the class path scanning or that
     * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
     *

```

```

* @return Resource user registered classes.
*/
public Set<Class<?>> getRegisteredClasses();

/**
* Get resource instances registered by the user in the current application. The set contains only
* user resources and not resources added by Jersey
* or by { @link org.glassfish.jersey.server.model.ModelProcessor }.
* <p/>
* User resources are resources that
* were explicitly registered by the configuration, discovered by the class path scanning or that
* constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource }.
*
* @return Resource instances registered by user.
*/
public Set<Object> getRegisteredInstances();

/**
* Get registered providers available in the runtime. The registered providers
* are providers like { @link org.glassfish.jersey.server.model.MethodList.Filter filters },
* { @link javax.ws.rs.ext.ReaderInterceptor reader } and { @link javax.ws.rs.ext.WriterInterceptor writer }
* interceptors which are explicitly registered by configuration, or annotated by
* { @link javax.ws.rs.ext.Provider @Provider } or registered in META-INF/services. The
* set does not include providers that are by default built in Jersey.
*
* @return Set of provider classes.
*/
public Set<Class<?>> getProviders();

/**
* Get the immutable consistent snapshot of the monitoring statistics. Working with snapshots might
* have negative performance impact as snapshot must be created but ensures consistency of data over time.
* However, the usage of snapshot is encouraged to avoid working with inconsistent data. Not all statistics
* must be updated in the same time on mutable version of statistics.
*
* @return Snapshot of application statistics.
*/
public ApplicationStatistics snapshot();
}

```

## 7.66 jest 0.1.5

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## 7.68 jetty 9.2.10

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Schedule A

| Name          | Date added        |
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|-------|------------|
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Full name: David Jencks  
E-Mail: `david_jencks@yahoo.com`  
Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Date: 27 June 2008

Please sign: David Jencks

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Version: GnuPG v1.4.7 (Darwin)

iD8DBQFIZT2ToF6+5lBz4BsRAs3wAJ9puXC26Nr8nhFvTZ9oNwxDFV/DVACgnC8O  
VFUWPZrfLOJesKa0/rYNJIM=  
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Full name: Gregory John Wilkins

E-Mail: `gregw@eclipse.com`

Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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5hdry6ZjXRcUhQEyNz2F/T4=

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Date: 10 March 2006

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Version: GnuPG v1.4.1 (GNU/Linux)

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E-Mail: `jmcconnell@apache.org`  
Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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Date: December 19 2007

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Version: GnuPG v1.4.6 (GNU/Linux)

iD8DBQFHacMO+jg6q+ULyBMRAky4AJ9CdNKsmg8n2aFcpQAvcEPXxEjIJACgrvJM  
C/W/GuQFfCJJykkL2jd9/Ag=  
=ufUh

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Full name: Jeanfrancois Arcand

E-Mail: jfarcand@apache.org

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CirIRAmuJAKCFgi4W0UOH8IU+SV6PBHRF3BnLgCcDqqC

Zokttk0bTHfwaa5TtxQbScw=

=N/w/

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E-Mail: jstrachan@apache.org

Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Date: January 30th 2006

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv  
8sfMxEDZquIqhVbfZU2c76U=  
=8WW7

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Full name: Julian Anthony Fox Gosnell

E-Mail: [jules@coredevelopers.net](mailto:jules@coredevelopers.net)

Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Version: GnuPG v1.4.2.1 (GNU/Linux)

iD8DBQFEebh9SoT4b97cQk4RAnCMAKCuNGYLHa6n/Ot3GEdwCCLeQxsMPACdEhnE  
I/stizRWWZZkeLbcglzdQCE=  
=piHm

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji  
6etDJ6AUj0jTuS159hUsWMQ=  
=HmqH

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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFy

LBDVaad1bJ1v1EHY901kPcg=

=6rqm

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Version: GnuPG v1.4.10 (GNU/Linux)

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iQEcBAEBAGAgBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
RUkfJzAPZaLDtDMfiDz7ucdRL1RDodmz4VIF2+fbKeBYQuZXfXIeEghz+tKriK3
0M12guFkNLDteQp9h2p3Zu9JU3K0y4m84IDWq72HRmh1nRyD6lzZFhDGZ/D+69fF
tgYG0FwEit00MAq/lRbsXHLpBOY+Jyh/Xy+QRnQTcAQ+tAgOlxd3w+JSs2sGdes
YLAJQQacLeGh7EzD3F+CKuiwT4c5ub64LdXSIAVj1u2OjZBfqLaJ3FA60Ti+I3kn
FNWKpzaeX+SQgMak6hsuatXi6EsVk6sIaskwEgl6+Xk+HYWY23ZQ8BKQRLKOZTw=
=gAqN
```

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iD8DBQFEnjfA9nwd0ZUd8/ERArwdAJ4lzyXEi4zSIIiJwEAxknGPhzMRswCfRsdI  
RUIoI0BYmYpaETSqxt2oLFU=  
=Tr57

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

javax.servlet:javax.servlet-api  
javax.servlet.jsp:javax.servlet.jsp-api  
org.glassfish.web:javax.servlet.jsp  
org.glassfish.web:javax.servlet.jsp  
org.glassfish.web:javax.servlet.jsp.jstl  
org.eclipse.jetty.orbit:javax.servlet.jsp.jstl

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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Version 3, 19 November 2007

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## 7.85 protobuf-java 2.5.0

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```

```
*
```

```
*/
```

```
package org.slf4j.helpers;
```

```
import java.io.ObjectStreamException;
```

```
import java.io.Serializable;
```

```
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
```

```
/**
```

```
* Serves as base class for named logger implementation. More significantly, this
```

```
* class establishes deserialization behavior. See @see #readResolve.
```

```
*
```

```
* @author Ceki Gulcu
```

```
* @since 1.5.3
```

```
*/
```

```
abstract class NamedLoggerBase implements Logger, Serializable {
```

```
    private static final long serialVersionUID = 7535258609338176893L;
```

```
    protected String name;
```

```
    public String getName() {
```

```
        return name;
```

```
    }
```

```
/**
```

```
* Replace this instance with a homonymous (same name) logger returned
```

```
* by LoggerFactory. Note that this method is only called during
```

```
* deserialization.
```

```
*
```

```
* <p>
```

```
* This approach will work well if the desired ILoggerFactory is the one
```

```
* references by LoggerFactory. However, if the user manages its logger hierarchy
```

```
* through a different (non-static) mechanism, e.g. dependency injection, then
```

```
* this approach would be mostly counterproductive.
```

```
*
```

```
* @return logger with same name as returned by LoggerFactory
```

```
* @throws ObjectStreamException
```

```
*/
```

```

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

```

## 7.88 slf4j-log4j12 1.6.1

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== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

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 */
```

```
package org.osgi.service.component.annotations;
```

```
/**
 * Configuration Policy for the { @link Component } annotation.
 *
 * <p>
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 *
 */
```



```

* @version $Id: 68099d3faefea9ab0eefca83d357dee0fc148fca $
* @since 1.1
*/
public enum ConfigurationPolicy {
/**
 * Use the corresponding Configuration object if present but allow the
 * component to be satisfied even if the corresponding Configuration object
 * is not present.
 */
OPTIONAL("optional"),

/**
 * There must be a corresponding Configuration object for the component
 * configuration to become satisfied.
 */
REQUIRE("require"),

/**
 * Always allow the component configuration to be satisfied and do not use
 * the corresponding Configuration object even if it is present.
 */
IGNORE("ignore");

private final String value;

ConfigurationPolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}
}
/*
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```

```

*/

package org.osgi.service.component.annotations;

/**
 * Policy for the { @link Reference} annotation.
 *
 * @version $Id: 14e3e74d93bf5b8cb641db8f9ef7aaf64d68eda5 $
 */
public enum ReferencePolicy {
    /**
     * The static policy is the most simple policy and is the default policy. A
     * component instance never sees any of the dynamics. Component
     * configurations are deactivated before any bound service for a reference
     * having a static policy becomes unavailable. If a target service is
     * available to replace the bound service which became unavailable, the
     * component configuration must be reactivated and bound to the replacement
     * service.
     */
    STATIC("static"),

    /**
     * The dynamic policy is slightly more complex since the component
     * implementation must properly handle changes in the set of bound services.
     * With the dynamic policy, SCR can change the set of bound services without
     * deactivating a component configuration. If the component uses the event
     * strategy to access services, then the component instance will be notified
     * of changes in the set of bound services by calls to the bind and unbind
     * methods.
     */
    DYNAMIC("dynamic");

    private final String value;

    ReferencePolicy(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }
}

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```

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*/

```

```
package org.osgi.service.component.annotations;
```

```
/**
```

```
* Policy option for the {@link Reference} annotation.
```

```
*
```

```
* @version $Id: 914e3ef6b1ebfc140776ab4ba8773bb1f213d50d $
```

```
* @since 1.2
```

```
*/
```

```
public enum ReferencePolicyOption {
```

```
/**
```

```

* The reluctant policy option is the default policy option for both
* {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
* dynamic} reference policies. When a new target service for a reference
* becomes available, references having the reluctant policy option for the
* static policy or the dynamic policy with a unary cardinality will ignore
* the new target service. References having the dynamic policy with a
* multiple cardinality will bind the new target service.
*/

```

```
RELUCTANT("reluctant"),
```

```
/**
```

```

* The greedy policy option is a valid policy option for both
* {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
* dynamic} reference policies. When a new target service for a reference
* becomes available, references having the greedy policy option will bind
* the new target service.
*/

```

```
GREEDY("greedy");
```

```
private final String value;
```

```
ReferencePolicyOption(String value) {
```

```
    this.value = value;
```

```
}
```

```
@Override
```

```
public String toString() {
```

```
    return value;
}
}
```

## 8.2 adresstracker-config 0.1.1-Helium-SR1

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## 8.3 adresstracker-impl 0.1.1-Helium-SR1

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## 8.4 adresstracker-model 0.1.1-Helium-SR1

### 8.4.1 Available under license :

IP Central Maven plugin could not find license data for this component. Please use the source code or component links to investigate and identify the correct license text to insert here.

## 8.5 Aether :: API 1.13.1

### 8.5.1 Available under license :

```
package org.sonatype.aether.collection;
```

```
/**
```

```
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* All rights reserved. This program and the accompanying materials  
* are made available under the terms of the Eclipse Public License v1.0  
* which accompanies this distribution, and is available at  
* http://www.eclipse.org/legal/epl-v10.html
```

```
*/
```

```
import java.util.Collection;  
import java.util.Collections;  
import java.util.Iterator;  
import java.util.LinkedHashSet;  
import java.util.List;
```

```
import org.sonatype.aether.RepositoryException;  
import org.sonatype.aether.artifact.Artifact;  
import org.sonatype.aether.graph.DependencyNode;
```

```

import org.sonatype.aether.version.VersionConstraint;

/**
 * Thrown in case of an unsolvable conflict between different version constraints for a dependency.
 *
 * @author Benjamin Bentmann
 */
public class UnsolvableVersionConflictException
    extends RepositoryException
{

    private final Object dependencyConflictId;

    private final Collection<String> versions;

    private final Collection<List<DependencyNode>> paths;

    public UnsolvableVersionConflictException( Object dependencyConflictId, Collection<String> versions )
    {
        super( "Could not resolve version conflict for " + dependencyConflictId + " with requested versions "
            + toList( versions ) );
        this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
        this.versions = ( versions != null ) ? versions : Collections.<String> emptyList();
        this.paths = Collections.emptyList();
    }

    private static String toList( Collection<String> versions )
    {
        {
            StringBuilder buffer = new StringBuilder( 256 );
            if ( versions != null )
            {
                for ( String version : versions )
                {
                    if ( buffer.length() > 0 )
                    {
                        buffer.append( ", " );
                    }
                    buffer.append( version );
                }
            }
            return buffer.toString();
        }
    }

    public UnsolvableVersionConflictException( Collection<List<DependencyNode>> paths, Object
    dependencyConflictId )
    {
        super( "Could not resolve version conflict among " + toPaths( paths ) );
        this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
    }
}

```

```

if ( paths == null )
{
    this.paths = Collections.emptyList();
    this.versions = Collections.emptyList();
}
else
{
    this.paths = paths;
    this.versions = new LinkedHashSet<String>();
    for ( List<DependencyNode> path : paths )
    {
        VersionConstraint constraint = path.get( path.size() - 1 ).getVersionConstraint();
        if ( constraint != null && !constraint.getRanges().isEmpty() )
        {
            versions.add( constraint.toString() );
        }
    }
}
}

```

```

private static String toPaths( Collection<List<DependencyNode>> paths )
{
    String result = "";

    if ( paths != null )
    {
        Collection<String> strings = new LinkedHashSet<String>();

        for ( List<DependencyNode> path : paths )
        {
            strings.add( toPath( path ) );
        }

        result = strings.toString();
    }

    return result;
}

```

```

private static String toPath( List<DependencyNode> path )
{
    StringBuilder buffer = new StringBuilder( 256 );

    for ( Iterator<DependencyNode> it = path.iterator(); it.hasNext(); )
    {
        DependencyNode node = it.next();
        if ( node.getDependency() == null )
        {

```

```

        continue;
    }

    Artifact artifact = node.getDependency().getArtifact();
    buffer.append( artifact.getGroupId() );
    buffer.append( ':' ).append( artifact.getArtifactId() );
    buffer.append( ':' ).append( artifact.getExtension() );
    if ( artifact.getClassifier().length() > 0 )
    {
        buffer.append( ':' ).append( artifact.getClassifier() );
    }
    buffer.append( ':' ).append( node.getVersionConstraint() );

    if ( it.hasNext() )
    {
        buffer.append( " -> " );
    }
}

return buffer.toString();
}

/**
 * Gets the conflict id of the dependency that encountered the version conflict.
 *
 * @return The conflict id, never { @code null }.
 */
public Object getDependencyConflictId()
{
    return dependencyConflictId;
}

/**
 * Gets the paths leading to the conflicting dependencies.
 *
 * @return The (read-only) paths leading to the conflicting dependencies, never { @code null }.
 */
public Collection<List<DependencyNode>> getPaths()
{
    return paths;
}

/**
 * Gets the conflicting version constraints of the dependency.
 *
 * @return The (read-only) conflicting version constraints, never { @code null }.
 */
public Collection<String> getVersions()

```

```

    {
        return versions;
    }

}

package org.sonatype.aether.repository;

/*****
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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *****/

/**
 * A policy controlling access to a repository. <em>Note:</em> Instances of this class are immutable and the
 * exposed
 * mutators return new objects rather than changing the current instance.
 *
 * @author Benjamin Bentmann
 */
public final class RepositoryPolicy
{

    /**
     * Never update locally cached data.
     */
    public static final String UPDATE_POLICY_NEVER = "never";

    /**
     * Always update locally cached data.
     */
    public static final String UPDATE_POLICY_ALWAYS = "always";

    /**
     * Update locally cached data once a day.
     */
    public static final String UPDATE_POLICY_DAILY = "daily";

    /**
     * Update locally cached data every X minutes as given by "interval:X".
     */
    public static final String UPDATE_POLICY_INTERVAL = "interval";

    /**
     * Verify checksums and fail the resolution if they do not match.
     */

```

```

public static final String CHECKSUM_POLICY_FAIL = "fail";

/**
 * Verify checksums and warn if they do not match.
 */
public static final String CHECKSUM_POLICY_WARN = "warn";

/**
 * Do not verify checksums.
 */
public static final String CHECKSUM_POLICY_IGNORE = "ignore";

private final boolean enabled;

private final String updatePolicy;

private final String checksumPolicy;

/**
 * Creates a new policy with checksum warnings and daily update checks.
 */
public RepositoryPolicy()
{
    this( true, UPDATE_POLICY_DAILY, CHECKSUM_POLICY_WARN );
}

/**
 * Creates a new policy with the specified settings.
 *
 * @param enabled A flag whether the associated repository should be accessed or not.
 * @param updatePolicy The update interval after which locally cached data from the repository is considered
stale
 * and should be refetched, may be { @code null }.
 * @param checksumPolicy The way checksum verification should be handled, may be { @code null }.
 */
public RepositoryPolicy( boolean enabled, String updatePolicy, String checksumPolicy )
{
    this.enabled = enabled;
    this.updatePolicy = ( updatePolicy != null ) ? updatePolicy : "";
    this.checksumPolicy = ( checksumPolicy != null ) ? checksumPolicy : "";
}

/**
 * Indicates whether the associated repository should be contacted or not.
 *
 * @return { @code true } if the repository should be contacted, { @code false } otherwise.
 */
public boolean isEnabled()

```



```

{
    return enabled;
}

/**
 * Sets the enabled flag for the associated repository.
 *
 * @param enabled {@code true} if the repository should be contacted, {@code false} otherwise.
 * @return The new policy, never {@code null}.
 */
public RepositoryPolicy setEnabled( boolean enabled )
{
    if ( this.enabled == enabled )
    {
        return this;
    }
    return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
}

/**
 * Gets the update policy for locally cached data from the repository.
 *
 * @return The update policy, never {@code null}.
 */
public String getUpdatePolicy()
{
    return updatePolicy;
}

/**
 * Sets the update policy for locally cached data from the repository. Well-known policies are
 * {@link #UPDATE_POLICY_NEVER}, {@link #UPDATE_POLICY_ALWAYS}, {@link
#UPDATE_POLICY_DAILY} and
 * {@link #UPDATE_POLICY_INTERVAL}
 *
 * @param updatePolicy The update policy, may be {@code null}.
 * @return The new policy, never {@code null}.
 */
public RepositoryPolicy setUpdatePolicy( String updatePolicy )
{
    if ( this.updatePolicy.equals( updatePolicy ) )
    {
        return this;
    }
    return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
}

/**

```

```

* Gets the policy for checksum validation.
*
* @return The checksum policy, never {@code null}.
*/
public String getChecksumPolicy()
{
    return checksumPolicy;
}

/**
* Sets the policy for checksum validation. Well-known policies are {@link #CHECKSUM_POLICY_FAIL},
* {@link #CHECKSUM_POLICY_WARN} and {@link #CHECKSUM_POLICY_IGNORE}.
*
* @param checksumPolicy The checksum policy, may be {@code null}.
* @return The new policy, never {@code null}.
*/
public RepositoryPolicy setChecksumPolicy( String checksumPolicy )
{
    if ( this.checksumPolicy.equals( checksumPolicy ) )
    {
        return this;
    }
    return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
}

@Override
public String toString()
{
    StringBuilder buffer = new StringBuilder( 256 );
    buffer.append( "enabled=" ).append( isEnabled() );
    buffer.append( ", checksums=" ).append( getChecksumPolicy() );
    buffer.append( ", updates=" ).append( getUpdatePolicy() );
    return buffer.toString();
}

@Override
public boolean equals( Object obj )
{
    if ( this == obj )
    {
        return true;
    }

    if ( obj == null || !getClass().equals( obj.getClass() ) )
    {
        return false;
    }
}

```

```

RepositoryPolicy that = (RepositoryPolicy) obj;

return enabled == that.enabled && updatePolicy.equals( that.updatePolicy )
    && checksumPolicy.equals( that.checksumPolicy );
}

@Override
public int hashCode()
{
    int hash = 17;
    hash = hash * 31 + ( enabled ? 1 : 0 );
    hash = hash * 31 + updatePolicy.hashCode();
    hash = hash * 31 + checksumPolicy.hashCode();
    return hash;
}
}

```

## 8.6 Aether :: Connector :: Wagon 1.13.1

### 8.6.1 Available under license :

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<http://www.eclipse.org/legal/epl-v10.html>

## 8.7 Aether :: Implementation 1.13.1

### 8.7.1 Available under license :

```

package org.sonatype.aether.impl.internal;

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *****/

import java.io.UnsupportedEncodingException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

/**
 * A simple digester for strings.
 *
 * @author Benjamin Bentmann
 */

```

```

class SimpleDigest
{

    private MessageDigest digest;

    private long hash;

    public SimpleDigest()
    {
        try
        {
            digest = MessageDigest.getInstance( "SHA-1" );
        }
        catch ( NoSuchAlgorithmException e )
        {
            try
            {
                digest = MessageDigest.getInstance( "MD5" );
            }
            catch ( NoSuchAlgorithmException ne )
            {
                digest = null;
                hash = 13;
            }
        }
    }

    public void update( String data )
    {
        if ( data == null || data.length() <= 0 )
        {
            return;
        }
        if ( digest != null )
        {
            try
            {
                digest.update( data.getBytes( "UTF-8" ) );
            }
            catch ( UnsupportedEncodingException e )
            {
                // broken JVM
            }
        }
        else
        {
            hash = hash * 31 + data.hashCode();
        }
    }
}

```

```

    }

    public String digest()
    {
        if ( digest != null )
        {
            StringBuilder buffer = new StringBuilder( 64 );

            byte[] bytes = digest.digest();
            for ( int i = 0; i < bytes.length; i++ )
            {
                int b = bytes[i] & 0xFF;

                if ( b < 0x10 )
                {
                    buffer.append( '0' );
                }

                buffer.append( Integer.toHexString( b ) );
            }

            return buffer.toString();
        }
        else
        {
            return Long.toHexString( hash );
        }
    }
}

package org.sonatype.aether.impl.internal;

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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *****/

import java.io.File;
import java.util.SortedSet;
import java.util.TreeSet;

import org.sonatype.aether.RepositorySystemSession;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.metadata.Metadata;
import org.sonatype.aether.repository.LocalArtifactRegistration;

```

```

import org.sonatype.aether.repository.LocalArtifactRequest;
import org.sonatype.aether.repository.LocalArtifactResult;
import org.sonatype.aether.repository.LocalMetadataRegistration;
import org.sonatype.aether.repository.LocalMetadataRequest;
import org.sonatype.aether.repository.LocalMetadataResult;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.RemoteRepository;
import org.sonatype.aether.spi.log.Logger;

/**
 * A local repository manager that realizes the classical Maven 2.0 local repository.
 *
 * @author Benjamin Bentmann
 */
public class SimpleLocalRepositoryManager
    implements LocalRepositoryManager
{

    private final LocalRepository repository;

    public SimpleLocalRepositoryManager( File basedir )
    {
        this( basedir, "simple" );
    }

    public SimpleLocalRepositoryManager( String basedir )
    {
        this( ( basedir != null ) ? new File( basedir ) : null, "simple" );
    }

    SimpleLocalRepositoryManager( File basedir, String type )
    {
        if ( basedir == null )
        {
            throw new IllegalArgumentException( "base directory has not been specified" );
        }
        repository = new LocalRepository( basedir.getAbsolutePath(), type );
    }

    public SimpleLocalRepositoryManager setLogger( Logger logger )
    {
        return this;
    }

    public LocalRepository getRepository()
    {
        return repository;
    }
}

```

```

}

String getPathForArtifact( Artifact artifact, boolean local )
{
    StringBuilder path = new StringBuilder( 128 );

    path.append( artifact.getGroupId().replace( '.', '/' ) ).append( '/' );

    path.append( artifact.getArtifactId() ).append( '/' );

    path.append( artifact.getBaseVersion() ).append( '/' );

    path.append( artifact.getArtifactId() ).append( '-' );
    if ( local )
    {
        path.append( artifact.getBaseVersion() );
    }
    else
    {
        path.append( artifact.getVersion() );
    }

    if ( artifact.getClassifier().length() > 0 )
    {
        path.append( '-' ).append( artifact.getClassifier() );
    }

    if ( artifact.getExtension().length() > 0 )
    {
        path.append( '.' ).append( artifact.getExtension() );
    }

    return path.toString();
}

public String getPathForLocalArtifact( Artifact artifact )
{
    return getPathForArtifact( artifact, true );
}

public String getPathForRemoteArtifact( Artifact artifact, RemoteRepository repository, String context )
{
    return getPathForArtifact( artifact, false );
}

public String getPathForLocalMetadata( Metadata metadata )
{
    return getPath( metadata, "local" );
}

```

```

}

public String getPathForRemoteMetadata( Metadata metadata, RemoteRepository repository, String context )
{
    return getPath( metadata, getRepositoryKey( repository, context ) );
}

String getRepositoryKey( RemoteRepository repository, String context )
{
    String key;

    if ( repository.isRepositoryManager() )
    {
        // repository serves dynamic contents, take request parameters into account for key

        StringBuilder buffer = new StringBuilder( 128 );

        buffer.append( repository.getId() );

        buffer.append( '-' );

        SortedSet<String> subKeys = new TreeSet<String>();
        for ( RemoteRepository mirroredRepo : repository.getMirroredRepositories() )
        {
            subKeys.add( mirroredRepo.getId() );
        }

        SimpleDigest digest = new SimpleDigest();
        digest.update( context );
        for ( String subKey : subKeys )
        {
            digest.update( subKey );
        }
        buffer.append( digest.digest() );

        key = buffer.toString();
    }
    else
    {
        // repository serves static contents, its id is sufficient as key

        key = repository.getId();
    }

    return key;
}

private String getPath( Metadata metadata, String repositoryKey )

```



```

{
    StringBuilder path = new StringBuilder( 128 );

    if ( metadata.getGroupId().length() > 0 )
    {
        path.append( metadata.getGroupId().replace( '.', '/' ) ).append( '/' );

        if ( metadata.getArtifactId().length() > 0 )
        {
            path.append( metadata.getArtifactId() ).append( '/' );

            if ( metadata.getVersion().length() > 0 )
            {
                path.append( metadata.getVersion() ).append( '/' );
            }
        }
    }

    path.append( insertRepositoryKey( metadata.getType(), repositoryKey ) );

    return path.toString();
}

private String insertRepositoryKey( String filename, String repositoryKey )
{
    String result;
    int idx = filename.indexOf( '.' );
    if ( idx < 0 )
    {
        result = filename + '-' + repositoryKey;
    }
    else
    {
        result = filename.substring( 0, idx ) + '-' + repositoryKey + filename.substring( idx );
    }
    return result;
}

public LocalArtifactResult find( RepositorySystemSession session, LocalArtifactRequest request )
{
    String path = getPathForArtifact( request.getArtifact(), false );
    File file = new File( getRepository().getBasedir(), path );

    LocalArtifactResult result = new LocalArtifactResult( request );
    if ( file.isFile() )
    {
        result.setFile( file );
        result.setAvailable( true );
    }
}

```

```

    }

    return result;
}

public void add( RepositorySystemSession session, LocalArtifactRegistration request )
{
    // noop
}

@Override
public String toString()
{
    return String.valueOf( getRepository() );
}

public LocalMetadataResult find( RepositorySystemSession session, LocalMetadataRequest request )
{
    LocalMetadataResult result = new LocalMetadataResult( request );

    String path;

    Metadata metadata = request.getMetadata();
    String context = request.getContext();
    RemoteRepository remote = request.getRepository();

    if ( remote != null )
    {
        path = getPathForRemoteMetadata( metadata, remote, context );
    }
    else
    {
        path = getPathForLocalMetadata( metadata );
    }

    File file = new File( getRepository().getBasedir(), path );
    if ( file.isFile() )
    {
        result.setFile( file );
    }

    return result;
}

public void add( RepositorySystemSession session, LocalMetadataRegistration request )
{
    // noop
}

```

```

}
package org.sonatype.aether.impl.internal;

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *****/

import org.codehaus.plexus.component.annotations.Component;
import org.codehaus.plexus.component.annotations.Requirement;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.NoLocalRepositoryManagerException;
import org.sonatype.aether.spi.localrepo.LocalRepositoryManagerFactory;
import org.sonatype.aether.spi.locator.Service;
import org.sonatype.aether.spi.locator.ServiceLocator;
import org.sonatype.aether.spi.log.Logger;
import org.sonatype.aether.spi.log.NullLogger;

/**
 * Creates {@link SimpleLocalRepositoryManager}s for repository type {@code "simple"}.
 *
 * @author Benjamin Hanzelmann
 */
@Component( role = LocalRepositoryManagerFactory.class, hint = "simple" )
public class SimpleLocalRepositoryManagerFactory
    implements LocalRepositoryManagerFactory, Service
{

    @Requirement
    private Logger logger = NullLogger.INSTANCE;

    public LocalRepositoryManager newInstance( LocalRepository repository )
        throws NoLocalRepositoryManagerException
    {
        if ( "".equals( repository.getContentType() ) || "simple".equals( repository.getContentType() ) )
        {
            return new SimpleLocalRepositoryManager( repository.getBasedir() ).setLogger( logger );
        }
        else
        {
            throw new NoLocalRepositoryManagerException( repository );
        }
    }
}

```

```

public void initService( ServiceLocator locator )
{
    setLogger( locator.getService( Logger.class ) );
}

public SimpleLocalRepositoryManagerFactory setLogger( Logger logger )
{
    this.logger = ( logger != null ) ? logger : NullLogger.INSTANCE;
    return this;
}

public int getPriority()
{
    return 0;
}

}

```

## 8.8 Aether :: Implementation 1.11

### 8.8.1 Available under license :

```
package org.sonatype.aether.impl.internal;
```

```
/**

```

```

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* http://www.apache.org/licenses/LICENSE-2.0.html
* You may elect to redistribute this code under either of these licenses.

```

```
*****/
```

```

import java.io.UnsupportedEncodingException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

```

```
/**
```

```

* A simple digester for strings.

```

```
*
```

```

* @author Benjamin Bentmann

```

```
*/
```

```
class SimpleDigest
```

```
{
```

```

private MessageDigest digest;

private long hash;

public SimpleDigest()
{
    try
    {
        digest = MessageDigest.getInstance( "SHA-1" );
    }
    catch ( NoSuchAlgorithmException e )
    {
        try
        {
            digest = MessageDigest.getInstance( "MD5" );
        }
        catch ( NoSuchAlgorithmException ne )
        {
            digest = null;
            hash = 13;
        }
    }
}

public void update( String data )
{
    if ( data == null )
    {
        return;
    }
    if ( digest != null )
    {
        try
        {
            digest.update( data.getBytes( "UTF-8" ) );
        }
        catch ( UnsupportedEncodingException e )
        {
            // broken JVM
        }
    }
    else
    {
        hash = hash * 31 + data.hashCode();
    }
}

```

```

public String digest()
{
    if ( digest != null )
    {
        StringBuilder buffer = new StringBuilder( 64 );

        byte[] bytes = digest.digest();
        for ( int i = 0; i < bytes.length; i++ )
        {
            int b = bytes[i] & 0xFF;

            if ( b < 0x10 )
            {
                buffer.append( '0' );
            }

            buffer.append( Integer.toHexString( b ) );
        }

        return buffer.toString();
    }
    else
    {
        return Long.toHexString( hash );
    }
}

}

package org.sonatype.aether.impl.internal;

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* The Apache License v2.0 is available at
* http://www.apache.org/licenses/LICENSE-2.0.html
* You may elect to redistribute this code under either of these licenses.
*****/

import java.io.File;
import java.util.SortedSet;
import java.util.TreeSet;

import org.sonatype.aether.RepositorySystemSession;
import org.sonatype.aether.artifact.Artifact;

```

```

import org.sonatype.aether.metadata.Metadata;
import org.sonatype.aether.repository.LocalArtifactRegistration;
import org.sonatype.aether.repository.LocalArtifactRequest;
import org.sonatype.aether.repository.LocalArtifactResult;
import org.sonatype.aether.repository.LocalMetadataRegistration;
import org.sonatype.aether.repository.LocalMetadataRequest;
import org.sonatype.aether.repository.LocalMetadataResult;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.RemoteRepository;
import org.sonatype.aether.spi.log.Logger;

/**
 * A local repository manager that realizes the classical Maven 2.0 local repository.
 *
 * @author Benjamin Bentmann
 */
public class SimpleLocalRepositoryManager
    implements LocalRepositoryManager
{

    private final LocalRepository repository;

    public SimpleLocalRepositoryManager( File basedir )
    {
        this( basedir, "simple" );
    }

    public SimpleLocalRepositoryManager( String basedir )
    {
        this( ( basedir != null ) ? new File( basedir ) : null, "simple" );
    }

    SimpleLocalRepositoryManager( File basedir, String type )
    {
        if ( basedir == null )
        {
            throw new IllegalArgumentException( "base directory has not been specified" );
        }
        repository = new LocalRepository( basedir.getAbsolutePath(), type );
    }

    public SimpleLocalRepositoryManager setLogger( Logger logger )
    {
        return this;
    }

    public LocalRepository getRepository()

```

```

{
    return repository;
}

public String getPathForLocalArtifact( Artifact artifact )
{
    StringBuilder path = new StringBuilder( 128 );

    path.append( artifact.getGroupId().replace( '.', '/' ) ).append( '/' );

    path.append( artifact.getArtifactId() ).append( '/' );

    path.append( artifact.getBaseVersion() ).append( '/' );

    path.append( artifact.getArtifactId() ).append( '-' ).append( artifact.getVersion() );

    if ( artifact.getClassifier().length() > 0 )
    {
        path.append( '-' ).append( artifact.getClassifier() );
    }

    path.append( '-' ).append( artifact.getExtension() );

    return path.toString();
}

public String getPathForRemoteArtifact( Artifact artifact, RemoteRepository repository, String context )
{
    return getPathForLocalArtifact( artifact );
}

public String getPathForLocalMetadata( Metadata metadata )
{
    return getPath( metadata, "local" );
}

public String getPathForRemoteMetadata( Metadata metadata, RemoteRepository repository, String context )
{
    return getPath( metadata, getRepositoryKey( repository, context ) );
}

String getRepositoryKey( RemoteRepository repository, String context )
{
    String key;

    if ( repository.isRepositoryManager() )
    {
        // repository serves dynamic contents, take request parameters into account for key

```



```

StringBuffer buffer = new StringBuffer( 128 );

buffer.append( repository.getId() );

buffer.append( '-' );

SortedSet<String> subKeys = new TreeSet<String>();
for ( RemoteRepository mirroredRepo : repository.getMirroredRepositories() )
{
    subKeys.add( mirroredRepo.getId() );
}

SimpleDigest digest = new SimpleDigest();
digest.update( context );
for ( String subKey : subKeys )
{
    digest.update( subKey );
}
buffer.append( digest.digest() );

key = buffer.toString();
}
else
{
    // repository serves static contents, its id is sufficient as key

    key = repository.getId();
}

return key;
}

private String getPath( Metadata metadata, String repositoryKey )
{
    StringBuffer path = new StringBuffer( 128 );

    if ( metadata.getGroupId().length() > 0 )
    {
        path.append( metadata.getGroupId().replace( '.', '/' ) ).append( '/' );

        if ( metadata.getArtifactId().length() > 0 )
        {
            path.append( metadata.getArtifactId() ).append( '/' );

            if ( metadata.getVersion().length() > 0 )
            {
                path.append( metadata.getVersion() ).append( '/' );
            }
        }
    }
}

```

```

    }
    }
}

path.append( insertRepositoryKey( metadata.getType(), repositoryKey ) );

return path.toString();
}

private String insertRepositoryKey( String filename, String repositoryKey )
{
    String result;
    int idx = filename.indexOf( '.' );
    if ( idx < 0 )
    {
        result = filename + '-' + repositoryKey;
    }
    else
    {
        result = filename.substring( 0, idx ) + '-' + repositoryKey + filename.substring( idx );
    }
    return result;
}

public LocalArtifactResult find( RepositorySystemSession session, LocalArtifactRequest request )
{
    String path = getPathForLocalArtifact( request.getArtifact() );
    File file = new File( getRepository().getBasedir(), path );

    LocalArtifactResult result = new LocalArtifactResult( request );
    if ( file.isFile() )
    {
        result.setFile( file );
        result.setAvailable( true );
    }

    return result;
}

public void add( RepositorySystemSession session, LocalArtifactRegistration request )
{
    // noop
}

@Override
public String toString()
{
    return String.valueOf( getRepository() );
}

```

```

}

public LocalMetadataResult find( RepositorySystemSession session, LocalMetadataRequest request )
{
    LocalMetadataResult result = new LocalMetadataResult( request );

    String path;

    Metadata metadata = request.getMetadata();
    String context = request.getContext();
    RemoteRepository remote = request.getRepository();

    if ( remote != null )
    {
        path = getPathForRemoteMetadata( metadata, remote, context );
    }
    else
    {
        path = getPathForLocalMetadata( metadata );
    }

    File file = new File( getRepository().getBasedir(), path );
    if ( file.isFile() )
    {
        result.setFile( file );
    }

    return result;
}

public void add( RepositorySystemSession session, LocalMetadataRegistration request )
{
    // noop
}

}

package org.sonatype.aether.impl.internal;

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*****/

```

```
*****/
```

```
import org.codehaus.plexus.component.annotations.Component;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.NoLocalRepositoryManagerException;
import org.sonatype.aether.spi.localrepo.LocalRepositoryManagerFactory;

/**
 * Creates {@link SimpleLocalRepositoryManager}s for repository type {@code "simple"}.
 *
 * @author Benjamin Hanzelmann
 */
@Component( role = LocalRepositoryManagerFactory.class, hint = "simple" )
public class SimpleLocalRepositoryManagerFactory
    implements LocalRepositoryManagerFactory
{

    public LocalRepositoryManager newInstance( LocalRepository repository )
        throws NoLocalRepositoryManagerException
    {
        if ( "".equals( repository.getContentType() ) || "simple".equals( repository.getContentType() ) )
        {
            return new SimpleLocalRepositoryManager( repository.getBasedir() );
        }
        else
        {
            throw new NoLocalRepositoryManagerException( repository );
        }
    }

    public int getPriority()
    {
        return 0;
    }

}
```

## 8.9 Aether :: SPI 1.13.1

### 8.9.1 Available under license :

```
*****
```

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## 8.10 Aether :: Utilities 1.13.1

### 8.10.1 Available under license :

```
package org.sonatype.aether.util.graph.transformer;
```

```
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*****  
*/
```

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```
*****  
*/
```

```
import java.util.ArrayList;  
import java.util.Collection;  
import java.util.Collections;  
import java.util.HashSet;  
import java.util.IdentityHashMap;  
import java.util.LinkedHashMap;  
import java.util.List;  
import java.util.Map;
```



```

import org.sonatype.aether.RepositoryException;
import org.sonatype.aether.collection.DependencyGraphTransformationContext;
import org.sonatype.aether.collection.DependencyGraphTransformer;
import org.sonatype.aether.graph.DependencyNode;

/**
 * A dependency graph transformer that creates a topological sorting of the conflict ids which have been assigned to
 * the
 * dependency nodes. Conflict ids are sorted according to the dependency relation induced by the dependency graph.
 * This
 * transformer will query the key { @link TransformationContextKeys#CONFLICT_IDS } in the transformation
 * context for an
 * existing mapping of nodes to their conflicts ids. In absence of this map, the transformer will automatically invoke
 * the { @link ConflictMarker } to calculate the conflict ids. When this transformer has executed, the transformation
 * context holds a { @code List<Object> } that denotes the topologically sorted conflict ids. The list will be stored
 * using the key { @link TransformationContextKeys#SORTED_CONFLICT_IDS }. In addition, the transformer will
 * store a
 * { @code Boolean } using the key { @link TransformationContextKeys#CYCLIC_CONFLICT_IDS } that indicates
 * whether the
 * conflict ids have cyclic dependencies.
 *
 * @author Benjamin Bentmann
 */
public class ConflictIdSorter
    implements DependencyGraphTransformer
{

    public DependencyNode transformGraph( DependencyNode node, DependencyGraphTransformationContext
context )
        throws RepositoryException
    {
        Map<?, ?> conflictIds = (Map<?, ?>) context.get( TransformationContextKeys.CONFLICT_IDS );
        if ( conflictIds == null )
        {
            ConflictMarker marker = new ConflictMarker();
            marker.transformGraph( node, context );

            conflictIds = (Map<?, ?>) context.get( TransformationContextKeys.CONFLICT_IDS );
        }

        Map<Object, ConflictId> ids = new LinkedHashMap<Object, ConflictId>( 256 );

        {
            ConflictId id = null;
            Object key = conflictIds.get( node );
            if ( key != null )
            {

```

```

        id = new ConflictId( key, 0 );
        ids.put( key, id );
    }

    Map<DependencyNode, Object> visited = new IdentityHashMap<DependencyNode, Object>(
conflictIds.size());

    buildConflitIdDAG( ids, node, id, 0, visited, conflictIds );
}

topsortConflictIds( ids.values(), context );

return node;
}

private void buildConflitIdDAG( Map<Object, ConflictId> ids, DependencyNode node, ConflictId id, int depth,
        Map<DependencyNode, Object> visited, Map<?, ?> conflictIds )
{
    if ( visited.put( node, Boolean.TRUE ) != null )
    {
        return;
    }

    depth++;

    for ( DependencyNode child : node.getChildren() )
    {
        Object key = conflictIds.get( child );
        ConflictId childId = ids.get( key );
        if ( childId == null )
        {
            childId = new ConflictId( key, depth );
            ids.put( key, childId );
        }
        else
        {
            childId.pullup( depth );
        }

        if ( id != null )
        {
            id.add( childId );
        }

        buildConflitIdDAG( ids, child, childId, depth, visited, conflictIds );
    }
}

```

```

private void topsortConflictIds( Collection<ConflictId> conflictIds, DependencyGraphTransformationContext
context )
{
    List<Object> sorted = new ArrayList<Object>( conflictIds.size() );

    RootQueue roots = new RootQueue( conflictIds.size() / 2 );
    for ( ConflictId id : conflictIds )
    {
        if ( id.inDegree <= 0 )
        {
            roots.add( id );
        }
    }

    while ( !roots.isEmpty() )
    {
        ConflictId root = roots.remove();

        sorted.add( root.key );

        for ( ConflictId child : root.children )
        {
            child.inDegree--;
            if ( child.inDegree == 0 )
            {
                roots.add( child );
            }
        }
    }

    boolean cycle = sorted.size() < conflictIds.size();

    while ( sorted.size() < conflictIds.size() )
    {
        // cycle -> deal gracefully with nodes still having positive in-degree

        ConflictId nearest = null;
        for ( ConflictId id : conflictIds )
        {
            if ( id.inDegree <= 0 )
            {
                continue;
            }
            if ( nearest == null || id.minDepth < nearest.minDepth
                || ( id.minDepth == nearest.minDepth && id.inDegree < nearest.inDegree ) )
            {
                nearest = id;
            }
        }
    }
}

```

```

    }

    nearest.inDegree = 0;
    roots.add( nearest );

    while ( !roots.isEmpty() )
    {
        ConflictId root = roots.remove();

        sorted.add( root.key );

        for ( ConflictId child : root.children )
        {
            child.inDegree--;
            if ( child.inDegree == 0 )
            {
                roots.add( child );
            }
        }
    }
}

context.put( TransformationContextKeys.SORTED_CONFLICT_IDS, sorted );
context.put( TransformationContextKeys.CYCLIC_CONFLICT_IDS, Boolean.valueOf( cycle ) );
}

static final class ConflictId
{

    final Object key;

    Collection<ConflictId> children = Collections.emptySet();

    int inDegree;

    int minDepth;

    public ConflictId( Object key, int depth )
    {
        this.key = key;
        this.minDepth = depth;
    }

    public void add( ConflictId child )
    {
        if ( children.isEmpty() )
        {
            children = new HashSet<ConflictId>();
        }
    }
}

```

```

    }
    if ( children.add( child ) )
    {
        child.inDegree++;
    }
}

public void pullup( int depth )
{
    if ( depth < minDepth )
    {
        minDepth = depth;
        depth++;
        for ( ConflictId child : children )
        {
            child.pullup( depth );
        }
    }
}

@Override
public boolean equals( Object obj )
{
    if ( this == obj )
    {
        return true;
    }
    else if ( !( obj instanceof ConflictId ) )
    {
        return false;
    }
    ConflictId that = (ConflictId) obj;
    return this.key.equals( that.key );
}

@Override
public int hashCode()
{
    return key.hashCode();
}

@Override
public String toString()
{
    return key + " @ " + minDepth + " <" + inDegree;
}
}

```

```

static final class RootQueue
{

    private int nextOut;

    private int nextIn;

    private ConflictId[] ids;

    RootQueue( int capacity )
    {
        ids = new ConflictId[capacity + 16];
    }

    boolean isEmpty()
    {
        return nextOut >= nextIn;
    }

    void add( ConflictId id )
    {
        if ( nextOut >= nextIn && nextOut > 0 )
        {
            nextIn -= nextOut;
            nextOut = 0;
        }
        if ( nextIn >= ids.length )
        {
            ConflictId[] tmp = new ConflictId[ids.length + ids.length / 2 + 16];
            System.arraycopy( ids, nextOut, tmp, 0, nextIn - nextOut );
            ids = tmp;
            nextIn -= nextOut;
            nextOut = 0;
        }
        int i;
        for ( i = nextIn - 1; i >= nextOut && id.minDepth < ids[i].minDepth; i-- )
        {
            ids[i + 1] = ids[i];
        }
        ids[i + 1] = id;
        nextIn++;
    }

    ConflictId remove()
    {
        return ids[nextOut++];
    }
}

```

```

    }

}
package org.sonatype.aether.util.graph.transformer;

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 * http://www.eclipse.org/legal/epl-v10.html
 *****/

import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.IdentityHashMap;
import java.util.Map;
import java.util.Set;

import org.sonatype.aether.RepositoryException;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.collection.DependencyGraphTransformationContext;
import org.sonatype.aether.collection.DependencyGraphTransformer;
import org.sonatype.aether.graph.Dependency;
import org.sonatype.aether.graph.DependencyNode;

/**
 * A dependency graph transformer that identifies conflicting dependencies. When this transformer has executed, the
 * transformation context holds a { @code Map<DependencyNode, Object>} where dependency nodes that belong to
 * the same
 * conflict group will have an equal conflict identifier. This map is stored using the key
 * { @link TransformationContextKeys#CONFLICT_IDS}.
 *
 * @author Benjamin Bentmann
 */
public class ConflictMarker
    implements DependencyGraphTransformer
{

    private final Object SEEN = Boolean.TRUE;

    /**
     * After the execution of this method, every DependencyNode with an attached dependency is member of one
     * conflict
     * group.

```

```

*
* @see DependencyGraphTransformer#transformGraph(DependencyNode,
DependencyGraphTransformationContext)
*/
public DependencyNode transformGraph( DependencyNode node, DependencyGraphTransformationContext
context )
    throws RepositoryException
{
    Map<DependencyNode, Object> nodes = new IdentityHashMap<DependencyNode, Object>( 1024 );
    Map<Object, ConflictGroup> groups = new HashMap<Object, ConflictGroup>( 1024 );

    analyze( node, nodes, groups );

    Map<DependencyNode, Object> conflictIds = mark( nodes.keySet(), groups );

    context.put( TransformationContextKeys.CONFLICT_IDS, conflictIds );

    return node;
}

private void analyze( DependencyNode node, Map<DependencyNode, Object> nodes, Map<Object,
ConflictGroup> groups )
{
    if ( nodes.put( node, SEEN ) != null )
    {
        return;
    }

    Set<Object> keys = getKeys( node );
    if ( !keys.isEmpty() )
    {
        ConflictGroup group = null;
        boolean fixMappings = false;

        for ( Object key : keys )
        {
            ConflictGroup g = groups.get( key );

            if ( group != g )
            {
                if ( group == null )
                {
                    Set<Object> newKeys = merge( g.keys, keys );
                    if ( newKeys == g.keys )
                    {
                        group = g;
                        break;
                    }
                }
            }
        }
    }
}

```



```

        else
        {
            group = new ConflictGroup( newKeys );
            fixMappings = true;
        }
    }
    else if ( g == null )
    {
        fixMappings = true;
    }
    else
    {
        Set<Object> newKeys = merge( g.keys, group.keys );
        if ( newKeys == g.keys )
        {
            group = g;
            fixMappings = false;
            break;
        }
        else if ( newKeys != group.keys )
        {
            group = new ConflictGroup( newKeys );
            fixMappings = true;
        }
    }
}

if ( group == null )
{
    group = new ConflictGroup( keys );
    fixMappings = true;
}
if ( fixMappings )
{
    for ( Object key : group.keys )
    {
        groups.put( key, group );
    }
}

for ( DependencyNode child : node.getChildren() )
{
    analyze( child, nodes, groups );
}
}

```

```

private Set<Object> merge( Set<Object> keys1, Set<Object> keys2 )
{
    int size1 = keys1.size();
    int size2 = keys2.size();

    if ( size1 < size2 )
    {
        if ( keys2.containsAll( keys1 ) )
        {
            return keys2;
        }
    }
    else
    {
        if ( keys1.containsAll( keys2 ) )
        {
            return keys1;
        }
    }

    Set<Object> keys = new HashSet<Object>();
    keys.addAll( keys1 );
    keys.addAll( keys2 );
    return keys;
}

private Set<Object> getKeys( DependencyNode node )
{
    Set<Object> keys;

    Dependency dependency = node.getDependency();

    if ( dependency == null )
    {
        keys = Collections.emptySet();
    }
    else
    {
        Object key = toKey( dependency.getArtifact() );

        if ( node.getRelocations().isEmpty() && node.getAliases().isEmpty() )
        {
            keys = Collections.singleton( key );
        }
        else
        {
            keys = new HashSet<Object>();
            keys.add( key );
        }
    }
}

```

```

    for ( Artifact relocation : node.getRelocations() )
    {
        key = toKey( relocation );
        keys.add( key );
    }

    for ( Artifact alias : node.getAliases() )
    {
        key = toKey( alias );
        keys.add( key );
    }
}

return keys;
}

private Map<DependencyNode, Object> mark( Collection<DependencyNode> nodes, Map<Object,
ConflictGroup> groups )
{
    Map<DependencyNode, Object> conflictIds = new IdentityHashMap<DependencyNode, Object>( nodes.size()
+ 1 );

    for ( DependencyNode node : nodes )
    {
        Dependency dependency = node.getDependency();
        if ( dependency != null )
        {
            Object key = toKey( dependency.getArtifact() );
            conflictIds.put( node, groups.get( key ).keys );
        }
    }

    return conflictIds;
}

private static Object toKey( Artifact artifact )
{
    return new Key( artifact );
}

static class ConflictGroup
{
    final Set<Object> keys;

    public ConflictGroup( Set<Object> keys )

```

```

    {
        this.keys = keys;
    }

    @Override
    public String toString()
    {
        return String.valueOf( keys );
    }
}

static class Key
{
    private final Artifact artifact;

    public Key( Artifact artifact )
    {
        this.artifact = artifact;
    }

    @Override
    public boolean equals( Object obj )
    {
        if ( obj == this )
        {
            return true;
        }
        else if ( !( obj instanceof Key ) )
        {
            return false;
        }
        Key that = (Key) obj;
        return artifact.getArtifactId().equals( that.artifact.getArtifactId() )
            && artifact.getGroupId().equals( that.artifact.getGroupId() )
            && artifact.getExtension().equals( that.artifact.getExtension() )
            && artifact.getClassifier().equals( that.artifact.getClassifier() );
    }

    @Override
    public int hashCode()
    {
        int hash = 17;
        hash = hash * 31 + artifact.getArtifactId().hashCode();
        hash = hash * 31 + artifact.getGroupId().hashCode();
        hash = hash * 31 + artifact.getClassifier().hashCode();
        hash = hash * 31 + artifact.getExtension().hashCode();
    }
}

```

```

        return hash;
    }

    @Override
    public String toString()
    {
        return artifact.getGroupId() + ':' + artifact.getArtifactId() + ':' + artifact.getClassifier() + ':'
            + artifact.getExtension();
    }

}

}

package org.sonatype.aether.util.graph.transformer;

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 *****/

import java.util.Collection;
import java.util.HashSet;
import java.util.IdentityHashMap;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;

import org.sonatype.aether.RepositoryException;
import org.sonatype.aether.collection.DependencyGraphTransformationContext;
import org.sonatype.aether.collection.DependencyGraphTransformer;
import org.sonatype.aether.collection.UnsolvableVersionConflictException;
import org.sonatype.aether.graph.DependencyFilter;
import org.sonatype.aether.graph.DependencyNode;
import org.sonatype.aether.util.graph.PathRecordingDependencyVisitor;
import org.sonatype.aether.version.Version;
import org.sonatype.aether.version.VersionConstraint;

/**
 * A dependency graph transformer that resolves version conflicts using the nearest-wins strategy. For a given set of
 * conflicting nodes, one node will be chosen as the winner and the other nodes are removed from the dependency
 * graph.
 * This transformer will query the keys { @link TransformationContextKeys#CONFLICT_IDS } and
 * { @link TransformationContextKeys#SORTED_CONFLICT_IDS } for existing information about conflict ids. In
 * absence of this

```

```

* information, it will automatically invoke the {@link ConflictIdSorter} to calculate it.
*
* @author Benjamin Bentmann
*/
public class NearestVersionConflictResolver
    implements DependencyGraphTransformer
{

    public DependencyNode transformGraph( DependencyNode node, DependencyGraphTransformationContext
context )
        throws RepositoryException
    {
        List<?> sortedConflictIds = (List<?>) context.get( TransformationContextKeys.SORTED_CONFLICT_IDS );
        if ( sortedConflictIds == null )
        {
            ConflictIdSorter sorter = new ConflictIdSorter();
            sorter.transformGraph( node, context );

            sortedConflictIds = (List<?>) context.get( TransformationContextKeys.SORTED_CONFLICT_IDS );
        }

        Map<?, ?> conflictIds = (Map<?, ?>) context.get( TransformationContextKeys.CONFLICT_IDS );
        if ( conflictIds == null )
        {
            throw new RepositoryException( "conflict groups have not been identified" );
        }

        Map<DependencyNode, Integer> depths = new IdentityHashMap<DependencyNode, Integer>(
conflictIds.size() );
        for ( Object key : sortedConflictIds )
        {
            ConflictGroup group = new ConflictGroup( key );
            depths.clear();
            selectVersion( node, null, 0, depths, group, conflictIds, node );
            pruneNonSelectedVersions( group, conflictIds );
        }

        return node;
    }

    private void selectVersion( DependencyNode node, DependencyNode parent, int depth,
        Map<DependencyNode, Integer> depths, ConflictGroup group, Map<?, ?> conflictIds,
        DependencyNode root )
        throws RepositoryException
    {
        Integer smallestDepth = depths.get( node );
        if ( smallestDepth == null || smallestDepth.intValue() > depth )
        {

```

```

    depths.put( node, Integer.valueOf( depth ) );
}
else
{
    return;
}

Object key = conflictIds.get( node );
if ( group.key.equals( key ) )
{
    Position pos = new Position( parent, depth );

    if ( parent != null )
    {
        group.positions.add( pos );
    }

    VersionConstraint constraint = node.getVersionConstraint();

    boolean backtrack = false;
    boolean hardConstraint = !constraint.getRanges().isEmpty();

    if ( hardConstraint )
    {
        {
            if ( group.constraints.add( constraint ) )
            {
                {
                    if ( group.version != null && !constraint.containsVersion( group.version ) )
                    {
                        backtrack = true;
                    }
                }
            }
        }
    }

    if ( isAcceptable( group, node.getVersion() ) )
    {
        {
            group.candidates.put( node, pos );

            if ( backtrack )
            {
                {
                    backtrack( group, conflictIds, root );
                }
            }
            else if ( group.version == null || isNearer( pos, node.getVersion(), group.position, group.version ) )
            {
                {
                    group.version = node.getVersion();
                    group.position = pos;
                }
            }
        }
    }
    else

```

```

    {
        if ( backtrack )
        {
            backtrack( group, conflictIds, root );
        }
        return;
    }
}

depth++;

for ( DependencyNode child : node.getChildren() )
{
    selectVersion( child, node, depth, depths, group, conflictIds, root );
}
}

private boolean isAcceptable( ConflictGroup group, Version version )
{
    for ( VersionConstraint constraint : group.constraints )
    {
        if ( !constraint.containsVersion( version ) )
        {
            return false;
        }
    }
    return true;
}

private void backtrack( ConflictGroup group, Map<?, ?> conflictIds, DependencyNode root )
    throws UnsolvableVersionConflictException
{
    group.version = null;

    for ( Iterator<Map.Entry<DependencyNode, Position>> it = group.candidates.entrySet().iterator(); it.hasNext();
)
    {
        Map.Entry<DependencyNode, Position> entry = it.next();

        Version version = entry.getKey().getVersion();
        Position pos = entry.getValue();

        if ( !isAcceptable( group, version ) )
        {
            it.remove();
        }
        else if ( group.version == null || isNearer( pos, version, group.position, group.version ) )
        {

```



```

        group.version = version;
        group.position = pos;
    }
}

if ( group.version == null )
{
    throw new Failure( group, conflictIds, root );
}
}

private UnsolvableVersionConflictException newFailure( final ConflictGroup group, final Map<?, ?> conflictIds,
                                                    DependencyNode root )
{
    DependencyFilter filter = new DependencyFilter()
    {
        public boolean accept( DependencyNode node, List<DependencyNode> parents )
        {
            return group.key.equals( conflictIds.get( node ) );
        }
    };
    PathRecordingDependencyVisitor visitor = new PathRecordingDependencyVisitor( filter );
    root.accept( visitor );
    return new UnsolvableVersionConflictException( visitor.getPaths(), group.key );
}

private boolean isNearer( Position pos1, Version ver1, Position pos2, Version ver2 )
{
    if ( pos1.depth < pos2.depth )
    {
        return true;
    }
    else if ( pos1.depth == pos2.depth && pos1.parent == pos2.parent && ver1.compareTo( ver2 ) > 0 )
    {
        return true;
    }
    return false;
}

private void pruneNonSelectedVersions( ConflictGroup group, Map<?, ?> conflictIds )
{
    for ( Position pos : group.positions )
    {
        for ( Iterator<DependencyNode> it = pos.parent.getChildren().iterator(); it.hasNext(); )
        {
            DependencyNode child = it.next();

            Object key = conflictIds.get( child );

```

```

        if ( group.key.equals( key ) )
        {
            if ( !group.pruned && group.position.depth == pos.depth
                && group.version.equals( child.getVersion() ) )
            {
                group.pruned = true;
            }
            else
            {
                it.remove();
            }
        }
    }
}

static final class ConflictGroup
{
    final Object key;

    final Collection<VersionConstraint> constraints = new HashSet<VersionConstraint>();

    final Map<DependencyNode, Position> candidates = new IdentityHashMap<DependencyNode, Position>( 32 );

    Version version;

    Position position;

    final Collection<Position> positions = new LinkedHashSet<Position>();

    boolean pruned;

    public ConflictGroup( Object key )
    {
        this.key = key;
        this.position = new Position( null, Integer.MAX_VALUE );
    }

    @Override
    public String toString()
    {
        return key + " > " + version;
    }
}

```

```

static final class Position
{

    final DependencyNode parent;

    final int depth;

    final int hash;

    public Position( DependencyNode parent, int depth )
    {
        this.parent = parent;
        this.depth = depth;
        hash = 31 * System.identityHashCode( parent ) + depth;
    }

    @Override
    public boolean equals( Object obj )
    {
        if ( this == obj )
        {
            return true;
        }
        else if ( !( obj instanceof Position ) )
        {
            return false;
        }
        Position that = (Position) obj;
        return this.parent == that.parent && this.depth == that.depth;
    }

    @Override
    public int hashCode()
    {
        return hash;
    }

    @Override
    public String toString()
    {
        return depth + " > " + parent;
    }

}
}

```

# 8.11 Aether API 0.9.0.M2

## 8.11.1 Available under license :

```
/*
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 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   Sonatype, Inc. - initial API and implementation
 */
package org.eclipse.aether.collection;

import java.util.Collection;
import java.util.Collections;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;

import org.eclipse.aether.RepositoryException;
import org.eclipse.aether.artifact.Artifact;
import org.eclipse.aether.graph.DependencyNode;
import org.eclipse.aether.version.VersionConstraint;

/**
 * Thrown in case of an unsolvable conflict between different version constraints for a dependency.
 */
public class UnsolvableVersionConflictException
    extends RepositoryException
{
    private final transient Collection<String> versions;

    private final transient Collection<List<DependencyNode>> paths;

    public UnsolvableVersionConflictException( Collection<List<DependencyNode>> paths )
    {
        super( "Could not resolve version conflict among " + toPaths( paths ) );
        if ( paths == null )
        {
            this.paths = Collections.emptyList();
            this.versions = Collections.emptyList();
        }
        else
        {

```

```

this.paths = paths;
this.versions = new LinkedHashSet<String>();
for ( List<DependencyNode> path : paths )
{
    VersionConstraint constraint = path.get( path.size() - 1 ).getVersionConstraint();
    if ( constraint != null && constraint.getRange() != null )
    {
        versions.add( constraint.toString() );
    }
}
}
}

```

```

private static String toPaths( Collection<List<DependencyNode>> paths )
{
    String result = "";

    if ( paths != null )
    {
        Collection<String> strings = new LinkedHashSet<String>();

        for ( List<DependencyNode> path : paths )
        {
            strings.add( toPath( path ) );
        }

        result = strings.toString();
    }

    return result;
}

```

```

private static String toPath( List<DependencyNode> path )
{
    StringBuilder buffer = new StringBuilder( 256 );

    for ( Iterator<DependencyNode> it = path.iterator(); it.hasNext(); )
    {
        DependencyNode node = it.next();
        if ( node.getDependency() == null )
        {
            continue;
        }

        Artifact artifact = node.getDependency().getArtifact();
        buffer.append( artifact.getGroupId() );
        buffer.append( ':' ).append( artifact.getArtifactId() );
        buffer.append( ':' ).append( artifact.getExtension() );
    }
}

```

```

    if ( artifact.getClassifier().length() > 0 )
    {
        buffer.append( ':' ).append( artifact.getClassifier() );
    }
    buffer.append( ':' ).append( node.getVersionConstraint() );

    if ( it.hasNext() )
    {
        buffer.append( " -> " );
    }
}

return buffer.toString();
}

/**
 * Gets the paths leading to the conflicting dependencies.
 *
 * @return The (read-only) paths leading to the conflicting dependencies, never { @code null }.
 */
public Collection<List<DependencyNode>> getPaths()
{
    return paths;
}

/**
 * Gets the conflicting version constraints of the dependency.
 *
 * @return The (read-only) conflicting version constraints, never { @code null }.
 */
public Collection<String> getVersions()
{
    return versions;
}
}

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 *
 * Contributors:
 *   Sonatype, Inc. - initial API and implementation
 *****/
package org.eclipse.aether.repository;

```

```

/**
 * A policy controlling access to a repository.
 */
public final class RepositoryPolicy
{

    /**
     * Never update locally cached data.
     */
    public static final String UPDATE_POLICY_NEVER = "never";

    /**
     * Always update locally cached data.
     */
    public static final String UPDATE_POLICY_ALWAYS = "always";

    /**
     * Update locally cached data once a day.
     */
    public static final String UPDATE_POLICY_DAILY = "daily";

    /**
     * Update locally cached data every X minutes as given by "interval:X".
     */
    public static final String UPDATE_POLICY_INTERVAL = "interval";

    /**
     * Verify checksums and fail the resolution if they do not match.
     */
    public static final String CHECKSUM_POLICY_FAIL = "fail";

    /**
     * Verify checksums and warn if they do not match.
     */
    public static final String CHECKSUM_POLICY_WARN = "warn";

    /**
     * Do not verify checksums.
     */
    public static final String CHECKSUM_POLICY_IGNORE = "ignore";

    private final boolean enabled;

    private final String updatePolicy;

    private final String checksumPolicy;

    /**

```

```

* Creates a new policy with checksum warnings and daily update checks.
*/
public RepositoryPolicy()
{
    this( true, UPDATE_POLICY_DAILY, CHECKSUM_POLICY_WARN );
}

/**
* Creates a new policy with the specified settings.
*
* @param enabled A flag whether the associated repository should be accessed or not.
* @param updatePolicy The update interval after which locally cached data from the repository is considered
stale
*       and should be refetched, may be { @code null }.
* @param checksumPolicy The way checksum verification should be handled, may be { @code null }.
*/
public RepositoryPolicy( boolean enabled, String updatePolicy, String checksumPolicy )
{
    this.enabled = enabled;
    this.updatePolicy = ( updatePolicy != null ) ? updatePolicy : "";
    this.checksumPolicy = ( checksumPolicy != null ) ? checksumPolicy : "";
}

/**
* Indicates whether the associated repository should be contacted or not.
*
* @return { @code true } if the repository should be contacted, { @code false } otherwise.
*/
public boolean isEnabled()
{
    return enabled;
}

/**
* Gets the update policy for locally cached data from the repository.
*
* @return The update policy, never { @code null }.
*/
public String getUpdatePolicy()
{
    return updatePolicy;
}

/**
* Gets the policy for checksum validation.
*
* @return The checksum policy, never { @code null }.
*/

```



```

public String getChecksumPolicy()
{
    return checksumPolicy;
}

@Override
public String toString()
{
    StringBuilder buffer = new StringBuilder( 256 );
    buffer.append( "enabled=" ).append( isEnabled() );
    buffer.append( ", checksums=" ).append( getChecksumPolicy() );
    buffer.append( ", updates=" ).append( getUpdatePolicy() );
    return buffer.toString();
}

@Override
public boolean equals( Object obj )
{
    if ( this == obj )
    {
        return true;
    }

    if ( obj == null || !getClass().equals( obj.getClass() ) )
    {
        return false;
    }

    RepositoryPolicy that = (RepositoryPolicy) obj;

    return enabled == that.enabled && updatePolicy.equals( that.updatePolicy )
        && checksumPolicy.equals( that.checksumPolicy );
}

@Override
public int hashCode()
{
    int hash = 17;
    hash = hash * 31 + ( enabled ? 1 : 0 );
    hash = hash * 31 + updatePolicy.hashCode();
    hash = hash * 31 + checksumPolicy.hashCode();
    return hash;
}

}

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```

```

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*****/
package org.eclipse.aether.resolution;

import org.eclipse.aether.RepositorySystemSession;

/**
 * Controls the handling of errors related to reading an artifact descriptor.
 *
 * @see RepositorySystemSession#getArtifactDescriptorPolicy()
 */
public interface ArtifactDescriptorPolicy
{

    /**
     * Bit mask indicating that errors while reading the artifact descriptor should not be tolerated.
     */
    int STRICT = 0x00;

    /**
     * Bit flag indicating that missing artifact descriptors should be silently ignored.
     */
    int IGNORE_MISSING = 0x01;

    /**
     * Bit flag indicating that existent but invalid artifact descriptors should be silently ignored.
     */
    int IGNORE_INVALID = 0x02;

    /**
     * Bit mask indicating that all errors should be silently ignored.
     */
    int IGNORE_ERRORS = IGNORE_MISSING | IGNORE_INVALID;

    /**
     * Gets the error policy for an artifact's descriptor.
     *
     * @param session The repository session during which the policy is determined, must not be {@code null}.
     * @param request The policy request holding further details, must not be {@code null}.
     * @return The bit mask describing the desired error policy.
     */
    int getPolicy( RepositorySystemSession session, ArtifactDescriptorPolicyRequest request );

```

```

}
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*
* Contributors:
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*****/
package org.eclipse.aether.resolution;

import org.eclipse.aether.artifact.Artifact;

/**
 * A query for the error policy for a given artifact's descriptor.
 *
 * @see ArtifactDescriptorPolicy
 */
public final class ArtifactDescriptorPolicyRequest
{
    private Artifact artifact;

    private String context = "";

    /**
     * Creates an uninitialized request.
     */
    public ArtifactDescriptorPolicyRequest()
    {
        // enables default constructor
    }

    /**
     * Creates a request for the specified artifact.
     *
     * @param artifact The artifact for whose descriptor to determine the error policy, may be {@code null}.
     * @param context The context in which this request is made, may be {@code null}.
     */
    public ArtifactDescriptorPolicyRequest( Artifact artifact, String context )
    {
        setArtifact( artifact );
        setRequestContext( context );
    }

    /**

```

```

* Gets the artifact for whose descriptor to determine the error policy.
*
* @return The artifact for whose descriptor to determine the error policy or { @code null } if not set.
*/
public Artifact getArtifact()
{
    return artifact;
}

/**
* Sets the artifact for whose descriptor to determine the error policy.
*
* @param artifact The artifact for whose descriptor to determine the error policy, may be { @code null }.
* @return This request for chaining, never { @code null }.
*/
public ArtifactDescriptorPolicyRequest setArtifact( Artifact artifact )
{
    this.artifact = artifact;
    return this;
}

/**
* Gets the context in which this request is made.
*
* @return The context, never { @code null }.
*/
public String getRequestContext()
{
    return context;
}

/**
* Sets the context in which this request is made.
*
* @param context The context, may be { @code null }.
* @return This request for chaining, never { @code null }.
*/
public ArtifactDescriptorPolicyRequest setRequestContext( String context )
{
    this.context = ( context != null ) ? context : "";
    return this;
}

@Override
public String toString()
{
    return String.valueOf( getArtifact() );
}

```

```

}
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* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Sonatype, Inc. - initial API and implementation
*****/
package org.eclipse.aether.resolution;

import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.artifact.Artifact;
import org.eclipse.aether.metadata.Metadata;

/**
 * Controls the caching of resolution errors for artifacts/metadata from remote repositories. If caching is enabled for
 * a given resource, a marker will be set (usually somewhere in the local repository) to suppress repeated resolution
 * attempts for the broken resource, thereby avoiding expensive but useless network IO. The error marker is
 * considered
 * stale once the repository's update policy has expired at which point a future resolution attempt will be allowed.
 * Error caching considers the current network settings such that fixes to the configuration like authentication or
 * proxy automatically trigger revalidation with the remote side regardless of the time elapsed since the previous
 * resolution error.
 *
 * @see RepositorySystemSession#getResolutionErrorPolicy()
 */
public interface ResolutionErrorPolicy
{

    /**
     * Bit mask indicating that resolution errors should not be cached in the local repository. This forces the system
     * to always query the remote repository for locally missing artifacts/metadata.
     */
    int CACHE_DISABLED = 0x00;

    /**
     * Bit flag indicating whether missing artifacts/metadata should be cached in the local repository. If caching is
     * enabled, resolution will not be reattempted until the update policy for the affected resource has expired.
     */
    int CACHE_NOT_FOUND = 0x01;

    /**
     * Bit flag indicating whether connectivity/transfer errors (e.g. unreachable host, bad authentication) should be
     * cached in the local repository. If caching is enabled, resolution will not be reattempted until the update policy

```

```

* for the affected resource has expired.
*/
int CACHE_TRANSFER_ERROR = 0x02;

/**
 * Bit mask indicating that all resolution errors should be cached in the local repository.
 */
int CACHE_ALL = CACHE_NOT_FOUND | CACHE_TRANSFER_ERROR;

/**
 * Gets the error policy for an artifact.
 *
 * @param session The repository session during which the policy is determined, must not be {@code null}.
 * @param request The policy request holding further details, must not be {@code null}.
 * @return The bit mask describing the desired error policy.
 */
int getArtifactPolicy( RepositorySystemSession session, ResolutionErrorPolicyRequest<Artifact> request );

/**
 * Gets the error policy for some metadata.
 *
 * @param session The repository session during which the policy is determined, must not be {@code null}.
 * @param request The policy request holding further details, must not be {@code null}.
 * @return The bit mask describing the desired error policy.
 */
int getMetadataPolicy( RepositorySystemSession session, ResolutionErrorPolicyRequest<Metadata> request );

}
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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   Sonatype, Inc. - initial API and implementation
 *****/
package org.eclipse.aether.resolution;

import org.eclipse.aether.repository.RemoteRepository;

/**
 * A query for the resolution error policy for a given artifact/metadata.
 *
 * @param <T> The type of the affected repository item (artifact or metadata).
 * @see ResolutionErrorPolicy
 */

```

```

public final class ResolutionErrorPolicyRequest<T>
{

    private T item;

    private RemoteRepository repository;

    /**
     * Creates an uninitialized request.
     */
    public ResolutionErrorPolicyRequest()
    {
        // enables default constructor
    }

    /**
     * Creates a request for the specified artifact/metadata and remote repository.
     *
     * @param item The artifact/metadata for which to determine the error policy, may be {@code null}.
     * @param repository The repository from which the resolution is attempted, may be {@code null}.
     */
    public ResolutionErrorPolicyRequest( T item, RemoteRepository repository )
    {
        setItem( item );
        setRepository( repository );
    }

    /**
     * Gets the artifact/metadata for which to determine the error policy.
     *
     * @return The artifact/metadata for which to determine the error policy or {@code null} if not set.
     */
    public T getItem()
    {
        return item;
    }

    /**
     * Sets the artifact/metadata for which to determine the error policy.
     *
     * @param item The artifact/metadata for which to determine the error policy, may be {@code null}.
     * @return This request for chaining, never {@code null}.
     */
    public ResolutionErrorPolicyRequest<T> setItem( T item )
    {
        this.item = item;
        return this;
    }
}

```

```

/**
 * Gets the remote repository from which the resolution of the artifact/metadata is attempted.
 *
 * @return The involved remote repository or { @code null } if not set.
 */
public RemoteRepository getRepository()
{
    return repository;
}

/**
 * Sets the remote repository from which the resolution of the artifact/metadata is attempted.
 *
 * @param repository The repository from which the resolution is attempted, may be { @code null }.
 * @return This request for chaining, never { @code null }.
 */
public ResolutionErrorPolicyRequest<T> setRepository( RemoteRepository repository )
{
    this.repository = repository;
    return this;
}

@Override
public String toString()
{
    return getItem() + " < " + getRepository();
}
}

```

## 8.12 Aether Utilities 0.9.0.M2

### 8.12.1 Available under license :

```

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 *
 * Contributors:
 *   Sonatype, Inc. - initial API and implementation
 *****/
package org.eclipse.aether.util.artifact;

import java.util.HashMap;

```



```

import java.util.Map;

import org.eclipse.aether.artifact.ArtifactType;
import org.eclipse.aether.artifact.ArtifactTypeRegistry;

/**
 * A simple map-based artifact type registry.
 */
class SimpleArtifactTypeRegistry
    implements ArtifactTypeRegistry
{

    private final Map<String, ArtifactType> types;

    /**
     * Creates a new artifact type registry with initially no registered artifact types. Use { @link #add(ArtifactType)}
     * to populate the registry.
     */
    public SimpleArtifactTypeRegistry()
    {
        types = new HashMap<String, ArtifactType>();
    }

    /**
     * Adds the specified artifact type to the registry.
     *
     * @param type The artifact type to add, must not be { @code null }.
     * @return This registry for chaining, never { @code null }.
     */
    public SimpleArtifactTypeRegistry add( ArtifactType type )
    {
        types.put( type.getId(), type );
        return this;
    }

    public ArtifactType get( String typeId )
    {
        ArtifactType type = types.get( typeId );

        return type;
    }

    @Override
    public String toString()
    {
        return types.toString();
    }
}

```

```

}
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* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Sonatype, Inc. - initial API and implementation
*****/
package org.eclipse.aether.util.graph.transformer;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.IdentityHashMap;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;

import org.eclipse.aether.RepositoryException;
import org.eclipse.aether.collection.DependencyGraphTransformationContext;
import org.eclipse.aether.collection.DependencyGraphTransformer;
import org.eclipse.aether.graph.DependencyNode;

/**
 * A dependency graph transformer that creates a topological sorting of the conflict ids which have been assigned to
 * the
 * dependency nodes. Conflict ids are sorted according to the dependency relation induced by the dependency graph.
 * This
 * transformer will query the key {@link TransformationContextKeys#CONFLICT_IDS} in the transformation
 * context for an
 * existing mapping of nodes to their conflicts ids. In absence of this map, the transformer will automatically invoke
 * the {@link ConflictMarker} to calculate the conflict ids. When this transformer has executed, the transformation
 * context holds a {@code List<Object>} that denotes the topologically sorted conflict ids. The list will be stored
 * using the key {@link TransformationContextKeys#SORTED_CONFLICT_IDS}. In addition, the transformer will
 * store a
 * {@code Collection<Collection<Object>>} using the key {@link
 * TransformationContextKeys#CYCLIC_CONFLICT_IDS} that
 * describes cycles among conflict ids.
 */
public final class ConflictIdSorter
    implements DependencyGraphTransformer
{

```

```

public DependencyNode transformGraph( DependencyNode node, DependencyGraphTransformationContext
context )
    throws RepositoryException
{
    Map<?, ?> conflictIds = (Map<?, ?>) context.get( TransformationContextKeys.CONFLICT_IDS );
    if ( conflictIds == null )
    {
        ConflictMarker marker = new ConflictMarker();
        marker.transformGraph( node, context );

        conflictIds = (Map<?, ?>) context.get( TransformationContextKeys.CONFLICT_IDS );
    }

    @SuppressWarnings( "unchecked" )
    Map<String, Object> stats = (Map<String, Object>) context.get( TransformationContextKeys.STATS );
    long time1 = System.currentTimeMillis();

    Map<Object, ConflictId> ids = new LinkedHashMap<Object, ConflictId>( 256 );

    {
        ConflictId id = null;
        Object key = conflictIds.get( node );
        if ( key != null )
        {
            id = new ConflictId( key, 0 );
            ids.put( key, id );
        }

        Map<DependencyNode, Object> visited = new IdentityHashMap<DependencyNode, Object>(
conflictIds.size() );

        buildConflictIdDAG( ids, node, id, 0, visited, conflictIds );
    }

    long time2 = System.currentTimeMillis();

    int cycles = topsortConflictIds( ids.values(), context );

    if ( stats != null )
    {
        long time3 = System.currentTimeMillis();
        stats.put( "ConflictIdSorter.graphTime", time2 - time1 );
        stats.put( "ConflictIdSorter.topsortTime", time3 - time2 );
        stats.put( "ConflictIdSorter.conflictIdCount", ids.size() );
        stats.put( "ConflictIdSorter.conflictIdCycleCount", cycles );
    }

    return node;
}

```

```

}

private void buildConflictDAG( Map<Object, ConflictId> ids, DependencyNode node, ConflictId id, int depth,
                             Map<DependencyNode, Object> visited, Map<?, ?> conflictIds )
{
    if ( visited.put( node, Boolean.TRUE ) != null )
    {
        return;
    }

    depth++;

    for ( DependencyNode child : node.getChildren() )
    {
        Object key = conflictIds.get( child );
        ConflictId childId = ids.get( key );
        if ( childId == null )
        {
            childId = new ConflictId( key, depth );
            ids.put( key, childId );
        }
        else
        {
            childId.pullup( depth );
        }

        if ( id != null )
        {
            id.add( childId );
        }

        buildConflictDAG( ids, child, childId, depth, visited, conflictIds );
    }
}

private int topsortConflictIds( Collection<ConflictId> conflictIds, DependencyGraphTransformationContext
context )
{
    List<Object> sorted = new ArrayList<Object>( conflictIds.size() );

    RootQueue roots = new RootQueue( conflictIds.size() / 2 );
    for ( ConflictId id : conflictIds )
    {
        if ( id.inDegree <= 0 )
        {
            roots.add( id );
        }
    }
}

```

```

processRoots( sorted, roots );

boolean cycle = sorted.size() < conflictIds.size();

while ( sorted.size() < conflictIds.size() )
{
    // cycle -> deal gracefully with nodes still having positive in-degree

    ConflictId nearest = null;
    for ( ConflictId id : conflictIds )
    {
        if ( id.inDegree <= 0 )
        {
            continue;
        }
        if ( nearest == null || id.minDepth < nearest.minDepth
            || ( id.minDepth == nearest.minDepth && id.inDegree < nearest.inDegree ) )
        {
            nearest = id;
        }
    }

    nearest.inDegree = 0;
    roots.add( nearest );

    processRoots( sorted, roots );
}

Collection<Collection<Object>> cycles = Collections.emptySet();
if ( cycle )
{
    cycles = findCycles( conflictIds );
}

context.put( TransformationContextKeys.SORTED_CONFLICT_IDS, sorted );
context.put( TransformationContextKeys.CYCLIC_CONFLICT_IDS, cycles );

return cycles.size();
}

private void processRoots( List<Object> sorted, RootQueue roots )
{
    while ( !roots.isEmpty() )
    {
        ConflictId root = roots.remove();

        sorted.add( root.key );
    }
}

```

```

for ( ConflictId child : root.children )
{
    child.inDegree--;
    if ( child.inDegree == 0 )
    {
        roots.add( child );
    }
}
}

private Collection<Collection<Object>> findCycles( Collection<ConflictId> conflictIds )
{
    Collection<Collection<Object>> cycles = new HashSet<Collection<Object>>();

    Map<Object, Integer> stack = new HashMap<Object, Integer>( 128 );
    Map<ConflictId, Object> visited = new IdentityHashMap<ConflictId, Object>( conflictIds.size() );
    for ( ConflictId id : conflictIds )
    {
        findCycles( id, visited, stack, cycles );
    }

    return cycles;
}

private void findCycles( ConflictId id, Map<ConflictId, Object> visited, Map<Object, Integer> stack,
                        Collection<Collection<Object>> cycles )
{
    Integer depth = stack.put( id.key, stack.size() );
    if ( depth != null )
    {
        stack.put( id.key, depth );
        Collection<Object> cycle = new HashSet<Object>();
        for ( Map.Entry<Object, Integer> entry : stack.entrySet() )
        {
            if ( entry.getValue() >= depth )
            {
                cycle.add( entry.getKey() );
            }
        }
        cycles.add( cycle );
    }
    else
    {
        if ( visited.put( id, Boolean.TRUE ) == null )
        {
            for ( ConflictId childId : id.children )

```

```

        {
            findCycles( childId, visited, stack, cycles );
        }
    }
    stack.remove( id.key );
}
}

static final class ConflictId
{

    final Object key;

    Collection<ConflictId> children = Collections.emptySet();

    int inDegree;

    int minDepth;

    public ConflictId( Object key, int depth )
    {
        this.key = key;
        this.minDepth = depth;
    }

    public void add( ConflictId child )
    {
        if ( children.isEmpty() )
        {
            children = new HashSet<ConflictId>();
        }
        if ( children.add( child ) )
        {
            child.inDegree++;
        }
    }

    public void pullup( int depth )
    {
        if ( depth < minDepth )
        {
            minDepth = depth;
            depth++;
            for ( ConflictId child : children )
            {
                child.pullup( depth );
            }
        }
    }
}

```

```

    }

    @Override
    public boolean equals( Object obj )
    {
        if ( this == obj )
        {
            return true;
        }
        else if ( !( obj instanceof ConflictId ) )
        {
            return false;
        }
        ConflictId that = (ConflictId) obj;
        return this.key.equals( that.key );
    }

    @Override
    public int hashCode()
    {
        return key.hashCode();
    }

    @Override
    public String toString()
    {
        return key + " @ " + minDepth + " <" + inDegree;
    }
}

static final class RootQueue
{

    private int nextOut;

    private int nextIn;

    private ConflictId[] ids;

    RootQueue( int capacity )
    {
        ids = new ConflictId[capacity + 16];
    }

    boolean isEmpty()
    {
        return nextOut >= nextIn;
    }
}

```



```

    }

    void add( ConflictId id )
    {
        if ( nextOut >= nextIn && nextOut > 0 )
        {
            nextIn -= nextOut;
            nextOut = 0;
        }
        if ( nextIn >= ids.length )
        {
            ConflictId[] tmp = new ConflictId[ids.length + ids.length / 2 + 16];
            System.arraycopy( ids, nextOut, tmp, 0, nextIn - nextOut );
            ids = tmp;
            nextIn -= nextOut;
            nextOut = 0;
        }
        int i;
        for ( i = nextIn - 1; i >= nextOut && id.minDepth < ids[i].minDepth; i-- )
        {
            ids[i + 1] = ids[i];
        }
        ids[i + 1] = id;
        nextIn++;
    }

    ConflictId remove()
    {
        return ids[nextOut++];
    }

}

}

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*
* Contributors:
*   Sonatype, Inc. - initial API and implementation
*****/
package org.eclipse.aether.util.graph.transformer;

import java.util.Collection;
import java.util.Collections;

```

```

import java.util.HashMap;
import java.util.HashSet;
import java.util.IdentityHashMap;
import java.util.Map;
import java.util.Set;

import org.eclipse.aether.RepositoryException;
import org.eclipse.aether.artifact.Artifact;
import org.eclipse.aether.collection.DependencyGraphTransformationContext;
import org.eclipse.aether.collection.DependencyGraphTransformer;
import org.eclipse.aether.graph.Dependency;
import org.eclipse.aether.graph.DependencyNode;

/**
 * A dependency graph transformer that identifies conflicting dependencies. When this transformer has executed, the
 * transformation context holds a { @code Map<DependencyNode, Object> } where dependency nodes that belong to
 * the same
 * conflict group will have an equal conflict identifier. This map is stored using the key
 * { @link TransformationContextKeys#CONFLICT_IDS }.
 */
public final class ConflictMarker
    implements DependencyGraphTransformer
{

    /**
     * After the execution of this method, every DependencyNode with an attached dependency is member of one
     conflict
     * group.
     *
     * @see DependencyGraphTransformer#transformGraph(DependencyNode,
     DependencyGraphTransformationContext)
     */
    public DependencyNode transformGraph( DependencyNode node, DependencyGraphTransformationContext
context )
        throws RepositoryException
    {
        @SuppressWarnings( "unchecked" )
        Map<String, Object> stats = (Map<String, Object>) context.get( TransformationContextKeys.STATS );
        long time1 = System.currentTimeMillis();

        Map<DependencyNode, Object> nodes = new IdentityHashMap<DependencyNode, Object>( 1024 );
        Map<Object, ConflictGroup> groups = new HashMap<Object, ConflictGroup>( 1024 );

        analyze( node, nodes, groups, new int[] { 0 } );

        long time2 = System.currentTimeMillis();

        Map<DependencyNode, Object> conflictIds = mark( nodes.keySet(), groups );

```

```

context.put( TransformationContextKeys.CONFLICT_IDS, conflictIds );

if ( stats != null )
{
    long time3 = System.currentTimeMillis();
    stats.put( "ConflictMarker.analyzeTime", time2 - time1 );
    stats.put( "ConflictMarker.markTime", time3 - time2 );
    stats.put( "ConflictMarker.nodeCount", nodes.size() );
}

return node;
}

private void analyze( DependencyNode node, Map<DependencyNode, Object> nodes, Map<Object,
ConflictGroup> groups,
                    int[] counter )
{
    if ( nodes.put( node, Boolean.TRUE ) != null )
    {
        return;
    }

    Set<Object> keys = getKeys( node );
    if ( !keys.isEmpty() )
    {
        ConflictGroup group = null;
        boolean fixMappings = false;

        for ( Object key : keys )
        {
            ConflictGroup g = groups.get( key );

            if ( group != g )
            {
                if ( group == null )
                {
                    Set<Object> newKeys = merge( g.keys, keys );
                    if ( newKeys == g.keys )
                    {
                        group = g;
                        break;
                    }
                }
                else
                {
                    group = new ConflictGroup( newKeys, counter[0]++ );
                    fixMappings = true;
                }
            }
        }
    }
}

```

```

    }
    else if ( g == null )
    {
        fixMappings = true;
    }
    else
    {
        Set<Object> newKeys = merge( g.keys, group.keys );
        if ( newKeys == g.keys )
        {
            group = g;
            fixMappings = false;
            break;
        }
        else if ( newKeys != group.keys )
        {
            group = new ConflictGroup( newKeys, counter[0]++ );
            fixMappings = true;
        }
    }
}

if ( group == null )
{
    group = new ConflictGroup( keys, counter[0]++ );
    fixMappings = true;
}
if ( fixMappings )
{
    for ( Object key : group.keys )
    {
        groups.put( key, group );
    }
}

for ( DependencyNode child : node.getChildren() )
{
    analyze( child, nodes, groups, counter );
}

private Set<Object> merge( Set<Object> keys1, Set<Object> keys2 )
{
    int size1 = keys1.size();
    int size2 = keys2.size();

```

```

if ( size1 < size2 )
{
    if ( keys2.containsAll( keys1 ) )
    {
        return keys2;
    }
}
else
{
    if ( keys1.containsAll( keys2 ) )
    {
        return keys1;
    }
}

Set<Object> keys = new HashSet<Object>();
keys.addAll( keys1 );
keys.addAll( keys2 );
return keys;
}

private Set<Object> getKeys( DependencyNode node )
{
    Set<Object> keys;

    Dependency dependency = node.getDependency();

    if ( dependency == null )
    {
        keys = Collections.emptySet();
    }
    else
    {
        Object key = toKey( dependency.getArtifact() );

        if ( node.getRelocations().isEmpty() && node.getAliases().isEmpty() )
        {
            keys = Collections.singleton( key );
        }
        else
        {
            keys = new HashSet<Object>();
            keys.add( key );

            for ( Artifact relocation : node.getRelocations() )
            {
                key = toKey( relocation );
                keys.add( key );
            }
        }
    }
}

```

```

    }

    for ( Artifact alias : node.getAliases() )
    {
        key = toKey( alias );
        keys.add( key );
    }
}

return keys;
}

private Map<DependencyNode, Object> mark( Collection<DependencyNode> nodes, Map<Object,
ConflictGroup> groups )
{
    Map<DependencyNode, Object> conflictIds = new IdentityHashMap<DependencyNode, Object>( nodes.size()
+ 1 );

    for ( DependencyNode node : nodes )
    {
        Dependency dependency = node.getDependency();
        if ( dependency != null )
        {
            Object key = toKey( dependency.getArtifact() );
            conflictIds.put( node, groups.get( key ).index );
        }
    }

    return conflictIds;
}

private static Object toKey( Artifact artifact )
{
    return new Key( artifact );
}

static class ConflictGroup
{

    final Set<Object> keys;

    final int index;

    public ConflictGroup( Set<Object> keys, int index )
    {
        this.keys = keys;
        this.index = index;
    }
}

```

```

    }

    @Override
    public String toString()
    {
        return String.valueOf( keys );
    }
}

static class Key
{

    private final Artifact artifact;

    public Key( Artifact artifact )
    {
        this.artifact = artifact;
    }

    @Override
    public boolean equals( Object obj )
    {
        if ( obj == this )
        {
            return true;
        }
        else if ( !( obj instanceof Key ) )
        {
            return false;
        }
        Key that = (Key) obj;
        return artifact.getArtifactId().equals( that.artifact.getArtifactId() )
            && artifact.getGroupId().equals( that.artifact.getGroupId() )
            && artifact.getExtension().equals( that.artifact.getExtension() )
            && artifact.getClassifier().equals( that.artifact.getClassifier() );
    }

    @Override
    public int hashCode()
    {
        int hash = 17;
        hash = hash * 31 + artifact.getArtifactId().hashCode();
        hash = hash * 31 + artifact.getGroupId().hashCode();
        hash = hash * 31 + artifact.getClassifier().hashCode();
        hash = hash * 31 + artifact.getExtension().hashCode();
        return hash;
    }
}

```

```

@Override
public String toString()
{
    return artifact.getGroupId() + ':' + artifact.getArtifactId() + ':' + artifact.getClassifier() + ':'
        + artifact.getExtension();
}

}

}

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* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Sonatype, Inc. - initial API and implementation
*****/
package org.eclipse.aether.util.graph.transformer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.IdentityHashMap;
import java.util.Iterator;
import java.util.List;
import java.util.ListIterator;
import java.util.Map;

import org.eclipse.aether.RepositoryException;
import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.artifact.Artifact;
import org.eclipse.aether.collection.DependencyGraphTransformationContext;
import org.eclipse.aether.collection.DependencyGraphTransformer;
import org.eclipse.aether.graph.DefaultDependencyNode;
import org.eclipse.aether.graph.Dependency;
import org.eclipse.aether.graph.DependencyNode;
import org.eclipse.aether.util.ConfigUtils;

/**
 * A dependency graph transformer that resolves version and scope conflicts among dependencies. For a given set of
 * conflicting nodes, one node will be chosen as the winner and the other nodes are removed from the dependency

```



graph.

- \* The exact rules by which a winning node and its effective scope are determined are controlled by user-supplied
- \* implementations of {@link VersionSelector}, {@link ScopeSelector}, {@link OptionalitySelector} and
- \* {@link ScopeDeriver}.
- \* <p>
- \* By default, this graph transformer will turn the dependency graph into a tree without duplicate artifacts. Using the
- \* configuration property {@link #CONFIG\_PROP\_VERBOSE}, a verbose mode can be enabled where the graph is
- \* still turned
- \* into a tree but all nodes participating in a conflict are retained. The nodes that were rejected during conflict
- \* resolution have no children and link back to the winner node via the {@link #NODE\_DATA\_WINNER} key in
- \* their custom
- \* data. Additionally, the keys {@link #NODE\_DATA\_ORIGINAL\_SCOPE} and {@link
- \* #NODE\_DATA\_ORIGINAL\_OPTIONALITY} are used
- \* to store the original scope and optionality of each node. Obviously, the resulting dependency tree is not suitable
- \* for artifact resolution unless a filter is employed to exclude the duplicate dependencies.
- \* <p>
- \* This transformer will query the keys {@link TransformationContextKeys#CONFLICT\_IDS},
- \* {@link TransformationContextKeys#SORTED\_CONFLICT\_IDS}, {@link
- \* TransformationContextKeys#CYCLIC\_CONFLICT\_IDS} for
- \* existing information about conflict ids. In absence of this information, it will automatically invoke the
- \* {@link ConflictIdSorter} to calculate it.
- \*/

```
public final class ConflictResolver
    implements DependencyGraphTransformer
{

    /**
     * The key in the repository session's {@link RepositorySystemSession#getConfigProperties() configuration
     * properties} used to store a {@link Boolean} flag controlling the transformer's verbose mode.
     */
    public static final String CONFIG_PROP_VERBOSE = "aether.conflictResolver.verbose";

    /**
     * The key in the dependency node's {@link DependencyNode#getData() custom data} under which a reference to
     * the
     * {@link DependencyNode} which has won the conflict is stored.
     */
    public static final String NODE_DATA_WINNER = "conflict.winner";

    /**
     * The key in the dependency node's {@link DependencyNode#getData() custom data} under which the scope of
     * the
     * dependency before scope derivation and conflict resolution is stored.
     */
    public static final String NODE_DATA_ORIGINAL_SCOPE = "conflict.originalScope";

    /**
     * The key in the dependency node's {@link DependencyNode#getData() custom data} under which the optional
```

```

flag of
    * the dependency before derivation and conflict resolution is stored.
    */
public static final String NODE_DATA_ORIGINAL_OPTIONALITY = "conflict.originalOptionality";

private final VersionSelector versionSelector;

private final ScopeSelector scopeSelector;

private final ScopeDeriver scopeDeriver;

private final OptionalitySelector optionalitySelector;

/**
 * Creates a new conflict resolver instance with the specified hooks.
 *
 * @param versionSelector The version selector to use, must not be {@code null}.
 * @param scopeSelector The scope selector to use, must not be {@code null}.
 * @param optionalitySelector The optionality selector to use, must not be {@code null}.
 * @param scopeDeriver The scope deriver to use, must not be {@code null}.
 */
public ConflictResolver( VersionSelector versionSelector, ScopeSelector scopeSelector,
                        OptionalitySelector optionalitySelector, ScopeDeriver scopeDeriver )
{
    if ( versionSelector == null )
    {
        throw new IllegalArgumentException( "version selector not specified" );
    }
    this.versionSelector = versionSelector;
    if ( scopeSelector == null )
    {
        throw new IllegalArgumentException( "scope selector not specified" );
    }
    this.scopeSelector = scopeSelector;
    if ( scopeDeriver == null )
    {
        throw new IllegalArgumentException( "scope deriver not specified" );
    }
    this.scopeDeriver = scopeDeriver;
    if ( optionalitySelector == null )
    {
        throw new IllegalArgumentException( "optionality selector not specified" );
    }
    this.optionalitySelector = optionalitySelector;
}

public DependencyNode transformGraph( DependencyNode node, DependencyGraphTransformationContext
context )

```

```

throws RepositoryException
{
    List<?> sortedConflictIds = (List<?>) context.get( TransformationContextKeys.SORTED_CONFLICT_IDS );
    if ( sortedConflictIds == null )
    {
        ConflictIdSorter sorter = new ConflictIdSorter();
        sorter.transformGraph( node, context );

        sortedConflictIds = (List<?>) context.get( TransformationContextKeys.SORTED_CONFLICT_IDS );
    }

    @SuppressWarnings( "unchecked" )
    Map<String, Object> stats = (Map<String, Object>) context.get( TransformationContextKeys.STATS );
    long time1 = System.currentTimeMillis();

    @SuppressWarnings( "unchecked" )
    Collection<Collection<?>> conflictIdCycles =
        (Collection<Collection<?>>) context.get( TransformationContextKeys.CYCLIC_CONFLICT_IDS );
    if ( conflictIdCycles == null )
    {
        throw new RepositoryException( "conflict id cycles have not been identified" );
    }

    Map<?, ?> conflictIds = (Map<?, ?>) context.get( TransformationContextKeys.CONFLICT_IDS );
    if ( conflictIds == null )
    {
        throw new RepositoryException( "conflict groups have not been identified" );
    }

    Map<Object, Collection<Object>> cyclicPredecessors = new HashMap<Object, Collection<Object>>();
    for ( Collection<?> cycle : conflictIdCycles )
    {
        for ( Object conflictId : cycle )
        {
            Collection<Object> predecessors = cyclicPredecessors.get( conflictId );
            if ( predecessors == null )
            {
                predecessors = new HashSet<Object>();
                cyclicPredecessors.put( conflictId, predecessors );
            }
            predecessors.addAll( cycle );
        }
    }

    State state = new State( node, conflictIds, sortedConflictIds.size(), context );
    for ( Iterator<?> it = sortedConflictIds.iterator(); it.hasNext(); )
    {
        Object conflictId = it.next();

```

```

// reset data structures for next graph walk
state.prepare( conflictId, cyclicPredecessors.get( conflictId ) );

// find nodes with the current conflict id and while walking the graph (more deeply), nuke leftover losers
gatherConflictItems( node, state );

// now that we know the min depth of the parents, update depth of conflict items
state.finish();

// earlier runs might have nuked all parents of the current conflict id, so it might not exist anymore
if ( !state.items.isEmpty() )
{
    ConflictContext ctx = state.conflictCtx;
    state.versionSelector.selectVersion( ctx );
    if ( ctx.winner == null )
    {
        throw new RepositoryException( "conflict resolver did not select winner among " + state.items );
    }
    DependencyNode winner = ctx.winner.node;

    state.scopeSelector.selectScope( ctx );
    if ( state.verbose )
    {
        winner.setData( NODE_DATA_ORIGINAL_SCOPE, winner.getDependency().getScope() );
    }
    winner.setScope( ctx.scope );

    state.optionalitySelector.selectOptionality( ctx );
    if ( state.verbose )
    {
        winner.setData( NODE_DATA_ORIGINAL_OPTIONALITY, winner.getDependency().isOptional() );
    }
    winner.setOptional( ctx.optional );

    removeLosers( state );
}

// record the winner so we can detect leftover losers during future graph walks
state.winner();

// in case of cycles, trigger final graph walk to ensure all leftover losers are gone
if ( !it.hasNext() && !conflictIdCycles.isEmpty() && state.conflictCtx.winner != null )
{
    DependencyNode winner = state.conflictCtx.winner.node;
    state.prepare( state, null );
    gatherConflictItems( winner, state );
}

```

```

    }

    if ( stats != null )
    {
        long time2 = System.currentTimeMillis();
        stats.put( "ConflictResolver.totalTime", time2 - time1 );
        stats.put( "ConflictResolver.conflictItemCount", state.totalConflictItems );
    }

    return node;
}

private boolean gatherConflictItems( DependencyNode node, State state )
    throws RepositoryException
{
    Object conflictId = state.conflictIds.get( node );
    if ( state.currentId.equals( conflictId ) )
    {
        // found it, add conflict item (if not already done earlier by another path)
        state.add( node );
        // we don't recurse here so we might miss losers beneath us, those will be nuked during future walks below
    }
    else if ( state.loser( node, conflictId ) )
    {
        // found a leftover loser (likely in a cycle) of an already processed conflict id, tell caller to nuke it
        return false;
    }
    else if ( state.push( node, conflictId ) )
    {
        // found potential parent, no cycle and not visited before with the same derived scope, so recurse
        for ( Iterator<DependencyNode> it = node.getChildren().iterator(); it.hasNext(); )
        {
            DependencyNode child = it.next();
            if ( !gatherConflictItems( child, state ) )
            {
                it.remove();
            }
        }
        state.pop();
    }
    return true;
}

private void removeLosers( State state )
{
    ConflictItem winner = state.conflictCtx.winner;
    List<DependencyNode> previousParent = null;
    ListIterator<DependencyNode> childIt = null;

```

```

boolean conflictVisualized = false;
for ( ConflictItem item : state.items )
{
    if ( item == winner )
    {
        continue;
    }
    if ( item.parent != previousParent )
    {
        childIt = item.parent.listIterator();
        previousParent = item.parent;
        conflictVisualized = false;
    }
    while ( childIt.hasNext() )
    {
        DependencyNode child = childIt.next();
        if ( child == item.node )
        {
            if ( state.verbose && !conflictVisualized && item.parent != winner.parent )
            {
                conflictVisualized = true;
                DependencyNode loser = new DefaultDependencyNode( child );
                loser.setData( NODE_DATA_WINNER, winner.node );
                loser.setData( NODE_DATA_ORIGINAL_SCOPE, loser.getDependency().getScope() );
                loser.setData( NODE_DATA_ORIGINAL_OPTIONALITY, loser.getDependency().isOptional() );
                loser.setScope( item.getScopes().iterator().next() );
                loser.setChildren( Collections.<DependencyNode> emptyList() );
                childIt.set( loser );
            }
            else
            {
                childIt.remove();
            }
            break;
        }
    }
}
// there might still be losers beneath the winner (e.g. in case of cycles)
// those will be nuked during future graph walks when we include the winner in the recursion
}

final class NodeInfo
{
    /**
     * The smallest depth at which the node was seen, used for "the" depth of its conflict items.
     */
    int minDepth;
}

```

```

/**
 * The set of derived scopes the node was visited with, used to check whether an already seen node needs to be
 * revisited again in context of another scope. To conserve memory, we start with { @code String } and update to
 * { @code Set<String> } if needed.
 */
Object derivedScopes;

/**
 * The set of derived optionalities the node was visited with, used to check whether an already seen node needs
 * to be revisited again in context of another optionality. To conserve memory, encoded as bit field (bit 0 ->
 * optional=false, bit 1 -> optional=true).
 */
int derivedOptionalities;

/**
 * The conflict items which are immediate children of the node, used to easily update those conflict items after
 * a new parent scope/optionality was encountered.
 */
List<ConflictItem> children;

static final int CHANGE_SCOPE = 0x01;

static final int CHANGE_OPTIONAL = 0x02;

private static final int OPT_FALSE = 0x01;

private static final int OPT_TRUE = 0x02;

NodeInfo( int depth, String derivedScope, boolean optional )
{
    minDepth = depth;
    derivedScopes = derivedScope;
    derivedOptionalities = optional ? OPT_TRUE : OPT_FALSE;
}

@SuppressWarnings( "unchecked" )
int update( int depth, String derivedScope, boolean optional )
{
    if ( depth < minDepth )
    {
        minDepth = depth;
    }
    int changes;
    if ( derivedScopes.equals( derivedScope ) )
    {
        changes = 0;
    }
}

```

```

else if ( derivedScopes instanceof Collection )
{
    changes = ( (Collection<String>) derivedScopes ).add( derivedScope ) ? CHANGE_SCOPE : 0;
}
else
{
    Collection<String> scopes = new HashSet<String>();
    scopes.add( (String) derivedScopes );
    scopes.add( derivedScope );
    derivedScopes = scopes;
    changes = CHANGE_SCOPE;
}
int bit = optional ? OPT_TRUE : OPT_FALSE;
if ( ( derivedOptionalities & bit ) == 0 )
{
    derivedOptionalities |= bit;
    changes |= CHANGE_OPTIONAL;
}
return changes;
}

void add( ConflictItem item )
{
    if ( children == null )
    {
        children = new ArrayList<ConflictItem>( 1 );
    }
    children.add( item );
}

}

final class State
{
    /**
     * The conflict id currently processed.
     */
    Object currentId;

    /**
     * Stats counter.
     */
    int totalConflictItems;

    /**
     * Flag whether we should keep losers in the graph to enable visualization/troubleshooting of conflicts.
     */

```



```

final boolean verbose;

/**
 * A mapping from conflict id to winner node, helps to recognize nodes that have their effective
 * scope&optionality set or are leftovers from previous removals.
 */
final Map<Object, DependencyNode> resolvedIds;

/**
 * The set of conflict ids which could apply to ancestors of nodes with the current conflict id, used to avoid
 * recursion early on. This is basically a superset of the key set of resolvedIds, the additional ids account
 * for cyclic dependencies.
 */
final Collection<Object> potentialAncestorIds;

/**
 * The output from the conflict marker
 */
final Map<?, ?> conflictIds;

/**
 * The conflict items we have gathered so far for the current conflict id.
 */
final List<ConflictItem> items;

/**
 * The (conceptual) mapping from nodes to extra infos, technically keyed by the node's child list which better
 * captures the identity of a node since we're basically concerned with effects towards children.
 */
final Map<List<DependencyNode>, NodeInfo> infos;

/**
 * The set of nodes on the DFS stack to detect cycles, technically keyed by the node's child list to match the
 * dirty graph structure produced by the dependency collector for cycles.
 */
final Map<List<DependencyNode>, Object> stack;

/**
 * The stack of parent nodes.
 */
final List<DependencyNode> parentNodes;

/**
 * The stack of derived scopes for parent nodes.
 */
final List<String> parentScopes;

/**

```

```

* The stack of derived optional flags for parent nodes.
*/
final List<Boolean> parentOptionals;

/**
* The stack of node infos for parent nodes, may contain { @code null } which is used to disable creating new
* conflict items when visiting their parent again (conflict items are meant to be unique by parent-node combo).
*/
final List<NodeInfo> parentInfos;

/**
* The conflict context passed to the version/scope/optionality selectors, updated as we move along rather than
* recreated to avoid tmp objects.
*/
final ConflictContext conflictCtx;

/**
* The scope context passed to the scope driver, updated as we move along rather than recreated to avoid tmp
* objects.
*/
final ScopeContext scopeCtx;

/**
* The effective version selector, i.e. after initialization.
*/
final VersionSelector versionSelector;

/**
* The effective scope selector, i.e. after initialization.
*/
final ScopeSelector scopeSelector;

/**
* The effective scope driver, i.e. after initialization.
*/
final ScopeDriver scopeDriver;

/**
* The effective optionality selector, i.e. after initialization.
*/
final OptionalitySelector optionalitySelector;

State( DependencyNode root, Map<?, ?> conflictIds, int conflictIdCount,
      DependencyGraphTransformationContext context )
  throws RepositoryException
{
  this.conflictIds = conflictIds;
  verbose = ConfigUtils.getBoolean( context.getSession(), false, CONFIG_PROP_VERBOSE );

```

```

potentialAncestorIds = new HashSet<Object>( conflictIdCount * 2 );
resolvedIds = new HashMap<Object, DependencyNode>( conflictIdCount * 2 );
items = new ArrayList<ConflictItem>( 256 );
infos = new IdentityHashMap<List<DependencyNode>, NodeInfo>( 64 );
stack = new IdentityHashMap<List<DependencyNode>, Object>( 64 );
parentNodes = new ArrayList<DependencyNode>( 64 );
parentScopes = new ArrayList<String>( 64 );
parentOptionals = new ArrayList<Boolean>( 64 );
parentInfos = new ArrayList<NodeInfo>( 64 );
conflictCtx = new ConflictContext( root, conflictIds, items );
scopeCtx = new ScopeContext( null, null );
versionSelector = ConflictResolver.this.versionSelector.getInstance( root, context );
scopeSelector = ConflictResolver.this.scopeSelector.getInstance( root, context );
scopeDeriver = ConflictResolver.this.scopeDeriver.getInstance( root, context );
optionalitySelector = ConflictResolver.this.optionalitySelector.getInstance( root, context );
}

```

```

void prepare( Object conflictId, Collection<Object> cyclicPredecessors )

```

```

{
    currentId = conflictCtx.conflictId = conflictId;
    conflictCtx.winner = null;
    conflictCtx.scope = null;
    conflictCtx.optional = null;
    items.clear();
    infos.clear();
    if ( cyclicPredecessors != null )
    {
        potentialAncestorIds.addAll( cyclicPredecessors );
    }
}

```

```

void finish()

```

```

{
    List<DependencyNode> previousParent = null;
    int previousDepth = 0;
    totalConflictItems += items.size();
    for ( int i = items.size() - 1; i >= 0; i-- )
    {
        ConflictItem item = items.get( i );
        if ( item.parent == previousParent )
        {
            item.depth = previousDepth;
        }
        else if ( item.parent != null )
        {
            previousParent = item.parent;
            NodeInfo info = infos.get( previousParent );
            previousDepth = info.minDepth + 1;
        }
    }
}

```

```

        item.depth = previousDepth;
    }
}
potentialAncestorIds.add( currentId );
}

void winner()
{
    resolvedIds.put( currentId, ( conflictCtx.winner != null ) ? conflictCtx.winner.node : null );
}

boolean loser( DependencyNode node, Object conflictId )
{
    DependencyNode winner = resolvedIds.get( conflictId );
    return winner != null && winner != node;
}

boolean push( DependencyNode node, Object conflictId )
    throws RepositoryException
{
    if ( conflictId == null )
    {
        if ( node.getDependency() != null )
        {
            if ( node.getData().get( NODE_DATA_WINNER ) != null )
            {
                return false;
            }
            throw new RepositoryException( "missing conflict id for node " + node );
        }
    }
    else if ( !potentialAncestorIds.contains( conflictId ) )
    {
        return false;
    }

    List<DependencyNode> graphNode = node.getChildren();
    if ( stack.put( graphNode, Boolean.TRUE ) != null )
    {
        return false;
    }

    int depth = depth();
    String scope = deriveScope( node, conflictId );
    boolean optional = deriveOptional( node, conflictId );
    NodeInfo info = infos.get( graphNode );
    if ( info == null )
    {

```

```

info = new NodeInfo( depth, scope, optional );
infos.put( graphNode, info );
parentInfos.add( info );
parentNodes.add( node );
parentScopes.add( scope );
parentOptionals.add( optional );
}
else
{
int changes = info.update( depth, scope, optional );
if ( changes == 0 )
{
stack.remove( graphNode );
return false;
}
parentInfos.add( null ); // disable creating new conflict items, we update the existing ones below
parentNodes.add( node );
parentScopes.add( scope );
parentOptionals.add( optional );
if ( info.children != null )
{
if ( ( changes & NodeInfo.CHANGE_SCOPE ) != 0 )
{
for ( int i = info.children.size() - 1; i >= 0; i-- )
{
ConflictItem item = info.children.get( i );
String childScope = deriveScope( item.node, null );
item.addScope( childScope );
}
}
if ( ( changes & NodeInfo.CHANGE_OPTIONAL ) != 0 )
{
for ( int i = info.children.size() - 1; i >= 0; i-- )
{
ConflictItem item = info.children.get( i );
boolean childOptional = deriveOptional( item.node, null );
item.addOptional( childOptional );
}
}
}
}

return true;
}

void pop()
{
int last = parentInfos.size() - 1;

```

```

    parentInfos.remove( last );
    parentScopes.remove( last );
    parentOptionals.remove( last );
    DependencyNode node = parentNodes.remove( last );
    stack.remove( node.getChildren() );
}

void add( DependencyNode node )
    throws RepositoryException
{
    DependencyNode parent = parent();
    if ( parent == null )
    {
        ConflictItem item = newConflictItem( parent, node );
        items.add( item );
    }
    else
    {
        NodeInfo info = parentInfos.get( parentInfos.size() - 1 );
        if ( info != null )
        {
            ConflictItem item = newConflictItem( parent, node );
            info.add( item );
            items.add( item );
        }
    }
}

private ConflictItem newConflictItem( DependencyNode parent, DependencyNode node )
    throws RepositoryException
{
    return new ConflictItem( parent, node, deriveScope( node, null ), deriveOptional( node, null ) );
}

private int depth()
{
    return parentNodes.size();
}

private DependencyNode parent()
{
    int size = parentNodes.size();
    return ( size <= 0 ) ? null : parentNodes.get( size - 1 );
}

private String deriveScope( DependencyNode node, Object conflictId )
    throws RepositoryException
{

```

```

if ( ( node.getManagedBits() & DependencyNode.MANAGED_SCOPE ) != 0
    || ( conflictId != null && resolvedIds.containsKey( conflictId ) ) )
{
    return scope( node.getDependency() );
}

int depth = parentNodes.size();
scopes( depth, node.getDependency() );
if ( depth > 0 )
{
    scopeDeriver.deriveScope( scopeCtx );
}
return scopeCtx.derivedScope;
}

private void scopes( int parent, Dependency child )
{
    scopeCtx.parentScope = ( parent > 0 ) ? parentScopes.get( parent - 1 ) : null;
    scopeCtx.derivedScope = scopeCtx.childScope = scope( child );
}

private String scope( Dependency dependency )
{
    return ( dependency != null ) ? dependency.getScope() : null;
}

private boolean deriveOptional( DependencyNode node, Object conflictId )
{
    Dependency dep = node.getDependency();
    boolean optional = ( dep != null ) ? dep.isOptional() : false;
    if ( optional || ( node.getManagedBits() & DependencyNode.MANAGED_OPTIONAL ) != 0
        || ( conflictId != null && resolvedIds.containsKey( conflictId ) ) )
    {
        return optional;
    }
    int depth = parentNodes.size();
    return ( depth > 0 ) ? parentOptionals.get( depth - 1 ) : false;
}

}

/**
 * A context used to hold information that is relevant for deriving the scope of a child dependency.
 *
 * @see ScopeDeriver
 * @noinstantiate This class is not intended to be instantiated by clients in production code, the constructor may
 * change without notice and only exists to enable unit testing.
 */

```

```

public static final class ScopeContext
{

    String parentScope;

    String childScope;

    String derivedScope;

    /**
     * Creates a new scope context with the specified properties.
     *
     * @param parentScope The scope of the parent dependency, may be {@code null}.
     * @param childScope The scope of the child dependency, may be {@code null}.
     * @noreference This class is not intended to be instantiated by clients in production code, the constructor may
     *             change without notice and only exists to enable unit testing.
     */
    public ScopeContext( String parentScope, String childScope )
    {
        this.parentScope = ( parentScope != null ) ? parentScope : "";
        derivedScope = this.childScope = ( childScope != null ) ? childScope : "";
    }

    /**
     * Gets the scope of the parent dependency. This is usually the scope that was derived by earlier invocations of
     * the scope deriver.
     *
     * @return The scope of the parent dependency, never {@code null}.
     */
    public String getParentScope()
    {
        return parentScope;
    }

    /**
     * Gets the original scope of the child dependency. This is the scope that was declared in the artifact
     * descriptor of the parent dependency.
     *
     * @return The original scope of the child dependency, never {@code null}.
     */
    public String getChildScope()
    {
        return childScope;
    }

    /**
     * Gets the derived scope of the child dependency. This is initially equal to {@link #getChildScope()} until the
     * scope deriver makes changes.

```



```

*
* @return The derived scope of the child dependency, never { @code null}.
*/
public String getDerivedScope()
{
    return derivedScope;
}

/**
 * Sets the derived scope of the child dependency.
 *
 * @param derivedScope The derived scope of the dependency, may be { @code null}.
 */
public void setDerivedScope( String derivedScope )
{
    this.derivedScope = ( derivedScope != null ) ? derivedScope : "";
}

}

/**
 * A conflicting dependency.
 *
 * @noinstantiate This class is not intended to be instantiated by clients in production code, the constructor may
 *                change without notice and only exists to enable unit testing.
 */
public static final class ConflictItem
{

    // nodes can share child lists, we care about the unique owner of a child node which is the child list
    final List<DependencyNode> parent;

    // only for debugging/toString() to help identify the parent node(s)
    final Artifact artifact;

    final DependencyNode node;

    int depth;

    // we start with String and update to Set<String> if needed
    Object scopes;

    // bit field of OPTIONAL_FALSE and OPTIONAL_TRUE
    int optionalities;

    /**
     * Bit flag indicating whether one or more paths consider the dependency non-optional.
     */
}

```

```

public static final int OPTIONAL_FALSE = 0x01;

/**
 * Bit flag indicating whether one or more paths consider the dependency optional.
 */
public static final int OPTIONAL_TRUE = 0x02;

ConflictItem( DependencyNode parent, DependencyNode node, String scope, boolean optional )
{
    if ( parent != null )
    {
        this.parent = parent.getChildren();
        this.artifact = parent.getArtifact();
    }
    else
    {
        this.parent = null;
        this.artifact = null;
    }
    this.node = node;
    this.scopes = scope;
    this.optionalities = optional ? OPTIONAL_TRUE : OPTIONAL_FALSE;
}

/**
 * Creates a new conflict item with the specified properties.
 *
 * @param parent The parent node of the conflicting dependency, may be {@code null}.
 * @param node The conflicting dependency, must not be {@code null}.
 * @param depth The zero-based depth of the conflicting dependency.
 * @param optionalities The optionalities the dependency was encountered with, encoded as a bit field
consisting
 *     of {@link ConflictResolver.ConflictItem#OPTIONAL_TRUE} and
 *     {@link ConflictResolver.ConflictItem#OPTIONAL_FALSE}.
 * @param scopes The derived scopes of the conflicting dependency, must not be {@code null}.
 * @noreference This class is not intended to be instantiated by clients in production code, the constructor may
 *     change without notice and only exists to enable unit testing.
 */
public ConflictItem( DependencyNode parent, DependencyNode node, int depth, int optionalities, String...
scopes )
{
    this.parent = ( parent != null ) ? parent.getChildren() : null;
    this.artifact = ( parent != null ) ? parent.getArtifact() : null;
    this.node = node;
    this.depth = depth;
    this.optionalities = optionalities;
    this.scopes = Arrays.asList( scopes );
}

```

```

/**
 * Determines whether the specified conflict item is a sibling of this item.
 *
 * @param item The other conflict item, must not be {@code null}.
 * @return {@code true} if the given item has the same parent as this item, {@code false} otherwise.
 */
public boolean isSibling( ConflictItem item )
{
    return parent == item.parent;
}

/**
 * Gets the dependency node involved in the conflict.
 *
 * @return The involved dependency node, never {@code null}.
 */
public DependencyNode getNode()
{
    return node;
}

/**
 * Gets the dependency involved in the conflict, short for {@code getNode.getDependency()}.
 *
 * @return The involved dependency, never {@code null}.
 */
public Dependency getDependency()
{
    return node.getDependency();
}

/**
 * Gets the zero-based depth at which the conflicting node occurs in the graph. As such, the depth denotes the
 * number of parent nodes. If actually multiple paths lead to the node, the return value denotes the smallest
 * possible depth.
 *
 * @return The zero-based depth of the node in the graph.
 */
public int getDepth()
{
    return depth;
}

/**
 * Gets the derived scopes of the dependency. In general, the same dependency node could be reached via
 * different paths and each path might result in a different derived scope.
 *

```

```

* @see ScopeDeriver
* @return The (read-only) set of derived scopes of the dependency, never { @code null }.
*/
@SuppressWarnings( "unchecked" )
public Collection<String> getScopes()
{
    if ( scopes instanceof String )
    {
        return Collections.singleton( (String) scopes );
    }
    return (Collection<String>) scopes;
}

@SuppressWarnings( "unchecked" )
void addScope( String scope )
{
    if ( scopes instanceof Collection )
    {
        ( (Collection<String>) scopes ).add( scope );
    }
    else if ( !scopes.equals( scope ) )
    {
        Collection<Object> set = new HashSet<Object>();
        set.add( scopes );
        set.add( scope );
        scopes = set;
    }
}

/**
* Gets the derived optionalities of the dependency. In general, the same dependency node could be reached via
* different paths and each path might result in a different derived optionality.
*
* @return A bit field consisting of { @link ConflictResolver.ConflictItem#OPTIONAL_FALSE } and/or
*         { @link ConflictResolver.ConflictItem#OPTIONAL_TRUE } indicating the derived optionalities the
*         dependency was encountered with.
*/
public int getOptionalities()
{
    return optionalities;
}

void addOptional( boolean optional )
{
    optionalities |= optional ? OPTIONAL_TRUE : OPTIONAL_FALSE;
}

@Override

```

```

public String toString()
{
    return node + " @ " + depth + " < " + artifact;
}

}

/**
 * A context used to hold information that is relevant for resolving version and scope conflicts.
 *
 * @see VersionSelector
 * @see ScopeSelector
 * @noinstantiate This class is not intended to be instantiated by clients in production code, the constructor may
 *                 change without notice and only exists to enable unit testing.
 */
public static final class ConflictContext
{

    final DependencyNode root;

    final Map<?, ?> conflictIds;

    final Collection<ConflictItem> items;

    Object conflictId;

    ConflictItem winner;

    String scope;

    Boolean optional;

    ConflictContext( DependencyNode root, Map<?, ?> conflictIds, Collection<ConflictItem> items )
    {
        this.root = root;
        this.conflictIds = conflictIds;
        this.items = Collections.unmodifiableCollection( items );
    }

    /**
     * Creates a new conflict context.
     *
     * @param root The root node of the dependency graph, must not be {@code null}.
     * @param conflictId The conflict id for the set of conflicting dependencies in this context, must not be
     *                  {@code null}.
     * @param conflictIds The mapping from dependency node to conflict id, must not be {@code null}.
     * @param items The conflict items in this context, must not be {@code null}.
     * @noreference This class is not intended to be instantiated by clients in production code, the constructor may

```

```

*         change without notice and only exists to enable unit testing.
*/
public ConflictContext( DependencyNode root, Object conflictId, Map<DependencyNode, Object> conflictIds,
    Collection<ConflictItem> items )
{
    this( root, conflictIds, items );
    this.conflictId = conflictId;
}

/**
 * Gets the root node of the dependency graph being transformed.
 *
 * @return The root node of the dependency graph, never { @code null }.
 */
public DependencyNode getRoot()
{
    return root;
}

/**
 * Determines whether the specified dependency node belongs to this conflict context.
 *
 * @param node The dependency node to check, must not be { @code null }.
 * @return { @code true } if the given node belongs to this conflict context, { @code false } otherwise.
 */
public boolean isIncluded( DependencyNode node )
{
    return conflictId.equals( conflictIds.get( node ) );
}

/**
 * Gets the collection of conflict items in this context.
 *
 * @return The (read-only) collection of conflict items in this context, never { @code null }.
 */
public Collection<ConflictItem> getItems()
{
    return items;
}

/**
 * Gets the conflict item which has been selected as the winner among the conflicting dependencies.
 *
 * @return The winning conflict item or { @code null } if not set yet.
 */
public ConflictItem getWinner()
{
    return winner;
}

```

```

}

/**
 * Sets the conflict item which has been selected as the winner among the conflicting dependencies.
 *
 * @param winner The winning conflict item, may be {@code null}.
 */
public void setWinner( ConflictItem winner )
{
    this.winner = winner;
}

/**
 * Gets the effective scope of the winning dependency.
 *
 * @return The effective scope of the winning dependency or {@code null} if none.
 */
public String getScope()
{
    return scope;
}

/**
 * Sets the effective scope of the winning dependency.
 *
 * @param scope The effective scope, may be {@code null}.
 */
public void setScope( String scope )
{
    this.scope = scope;
}

/**
 * Gets the effective optional flag of the winning dependency.
 *
 * @return The effective optional flag or {@code null} if none.
 */
public Boolean getOptional()
{
    return optional;
}

/**
 * Sets the effective optional flag of the winning dependency.
 *
 * @param optional The effective optional flag, may be {@code null}.
 */
public void setOptional( Boolean optional )

```

```

    {
        this.optional = optional;
    }

    @Override
    public String toString()
    {
        return winner + " @ " + scope + " < " + items;
    }
}

/**
 * An extension point of {@link ConflictResolver} that determines the winner among conflicting dependencies.
The
 * winning node (and its children) will be retained in the dependency graph, the other nodes will get removed. The
 * version selector does not need to deal with potential scope conflicts, these will be addressed afterwards by the
 * {@link ScopeSelector}. Implementations must be stateless.
 */
public static abstract class VersionSelector
{

    /**
     * Retrieves the version selector for use during the specified graph transformation. The conflict resolver calls
     * this method once per
     * {@link ConflictResolver#transformGraph(DependencyNode, DependencyGraphTransformationContext)}
invocation to
     * allow implementations to prepare any auxiliary data that is needed for their operation. Given that
     * implementations need to be stateless, a new instance needs to be returned to hold such auxiliary data. The
     * default implementation simply returns the current instance which is appropriate for implementations which
do
     * not require auxiliary data.
     *
     * @param root The root node of the (possibly cyclic!) graph to transform, must not be {@code null}.
     * @param context The graph transformation context, must not be {@code null}.
     * @return The scope deriver to use for the given graph transformation, never {@code null}.
     * @throws RepositoryException If the instance could not be retrieved.
     */
    public VersionSelector getInstance( DependencyNode root, DependencyGraphTransformationContext context )
        throws RepositoryException
    {
        return this;
    }

    /**
     * Determines the winning node among conflicting dependencies. Implementations will usually iterate
     * {@link ConflictContext#getItems()}, inspect {@link ConflictItem#getNode()} and eventually call
     * {@link ConflictContext#setWinner(ConflictResolver.ConflictItem)} to deliver the winner. Failure to select a

```



```

* winner will automatically fail the entire conflict resolution.
*
* @param context The conflict context, must not be {@code null}.
* @throws RepositoryException If the version selection failed.
*/
public abstract void selectVersion( ConflictContext context )
    throws RepositoryException;

}

/**
* An extension point of {@link ConflictResolver} that determines the effective scope of a dependency from a
* potentially conflicting set of {@link ScopeDeriver} derived scopes}. The scope selector gets invoked after the
* {@link VersionSelector} has picked the winning node. Implementations must be stateless.
*/
public static abstract class ScopeSelector
{

    /**
    * Retrieves the scope selector for use during the specified graph transformation. The conflict resolver calls
    * this method once per
    * {@link ConflictResolver#transformGraph(DependencyNode, DependencyGraphTransformationContext)}
    invocation to
    * allow implementations to prepare any auxiliary data that is needed for their operation. Given that
    * implementations need to be stateless, a new instance needs to be returned to hold such auxiliary data. The
    * default implementation simply returns the current instance which is appropriate for implementations which
    do
    * not require auxiliary data.
    *
    * @param root The root node of the (possibly cyclic!) graph to transform, must not be {@code null}.
    * @param context The graph transformation context, must not be {@code null}.
    * @return The scope selector to use for the given graph transformation, never {@code null}.
    * @throws RepositoryException If the instance could not be retrieved.
    */
    public ScopeSelector getInstance( DependencyNode root, DependencyGraphTransformationContext context )
        throws RepositoryException
    {
        return this;
    }

    /**
    * Determines the effective scope of the dependency given by {@link ConflictContext#getWinner()}.
    * Implementations will usually iterate {@link ConflictContext#getItems()}, inspect
    * {@link ConflictItem#getScopes()} and eventually call {@link ConflictContext#setScope(String)} to deliver
    the
    * effective scope.
    *
    * @param context The conflict context, must not be {@code null}.

```

```

    * @throws RepositoryException If the scope selection failed.
    */
    public abstract void selectScope( ConflictContext context )
        throws RepositoryException;

}

/**
 * An extension point of { @link ConflictResolver } that determines the scope of a dependency in relation to the
scope
 * of its parent. Implementations must be stateless.
 */
public static abstract class ScopeDeriver
{

    /**
     * Retrieves the scope deriver for use during the specified graph transformation. The conflict resolver calls
     * this method once per
     * { @link ConflictResolver#transformGraph(DependencyNode, DependencyGraphTransformationContext) }
invocation to
     * allow implementations to prepare any auxiliary data that is needed for their operation. Given that
     * implementations need to be stateless, a new instance needs to be returned to hold such auxiliary data. The
     * default implementation simply returns the current instance which is appropriate for implementations which
do
     * not require auxiliary data.
     *
     * @param root The root node of the (possibly cyclic!) graph to transform, must not be { @code null }.
     * @param context The graph transformation context, must not be { @code null }.
     * @return The scope deriver to use for the given graph transformation, never { @code null }.
     * @throws RepositoryException If the instance could not be retrieved.
     */
    public ScopeDeriver getInstance( DependencyNode root, DependencyGraphTransformationContext context )
        throws RepositoryException
    {
        return this;
    }

    /**
     * Determines the scope of a dependency in relation to the scope of its parent. Implementors need to call
     * { @link ScopeContext#setDerivedScope(String) } to deliver the result of their calculation. If said method is
     * not invoked, the conflict resolver will assume the scope of the child dependency remains unchanged.
     *
     * @param context The scope context, must not be { @code null }.
     * @throws RepositoryException If the scope derivation failed.
     */
    public abstract void deriveScope( ScopeContext context )
        throws RepositoryException;
}

```

```

}

/**
 * An extension point of { @link ConflictResolver } that determines the effective optional flag of a dependency
from a
 * potentially conflicting set of derived optionalities. The optionality selector gets invoked after the
 * { @link VersionSelector } has picked the winning node. Implementations must be stateless.
 */
public static abstract class OptionalitySelector
{

    /**
     * Retrieves the optionality selector for use during the specified graph transformation. The conflict resolver
     * calls this method once per
     * { @link ConflictResolver#transformGraph(DependencyNode, DependencyGraphTransformationContext)}
invocation to
     * allow implementations to prepare any auxiliary data that is needed for their operation. Given that
     * implementations need to be stateless, a new instance needs to be returned to hold such auxiliary data. The
     * default implementation simply returns the current instance which is appropriate for implementations which
do
     * not require auxiliary data.
     *
     * @param root The root node of the (possibly cyclic!) graph to transform, must not be { @code null }.
     * @param context The graph transformation context, must not be { @code null }.
     * @return The optionality selector to use for the given graph transformation, never { @code null }.
     * @throws RepositoryException If the instance could not be retrieved.
     */
    public OptionalitySelector getInstance( DependencyNode root, DependencyGraphTransformationContext
context )
        throws RepositoryException
    {
        return this;
    }

    /**
     * Determines the effective optional flag of the dependency given by { @link ConflictContext#getWinner()}.
     * Implementations will usually iterate { @link ConflictContext#getItems() }, inspect
     * { @link ConflictItem#getOptionalities() } and eventually call { @link ConflictContext#setOptional(Boolean) }
to
     * deliver the effective optional flag.
     *
     * @param context The conflict context, must not be { @code null }.
     * @throws RepositoryException If the optionality selection failed.
     */
    public abstract void selectOptionality( ConflictContext context )
        throws RepositoryException;
}

```

```

}
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*
* Contributors:
*   Sonatype, Inc. - initial API and implementation
*****/
package org.eclipse.aether.util.graph.transformer;

import java.util.Collection;

import org.eclipse.aether.RepositoryException;
import org.eclipse.aether.util.graph.transformer.ConflictResolver.ConflictContext;
import org.eclipse.aether.util.graph.transformer.ConflictResolver.ConflictItem;
import org.eclipse.aether.util.graph.transformer.ConflictResolver.OptionalitySelector;

/**
 * An optionality selector for use with { @link ConflictResolver }. In general, this selector only marks a dependency
 * as
 * optional if all its occurrences are optional. If however a direct dependency is involved, its optional flag is
 * selected.
 */
public final class SimpleOptionalitySelector
    extends OptionalitySelector
{

    /**
     * Creates a new instance of this scope selector.
     */
    public SimpleOptionalitySelector()
    {

    }

    @Override
    public void selectOptionality( ConflictContext context )
        throws RepositoryException
    {
        boolean optional = chooseEffectiveOptionality( context.getItems() );
        context.setOptional( optional );
    }

    private boolean chooseEffectiveOptionality( Collection<ConflictItem> items )
    {

```

```

boolean optional = true;
for ( ConflictItem item : items )
{
    if ( item.getDepth() <= 1 )
    {
        return item.getDependency().isOptional();
    }
    if ( ( item.getOptionalities() & ConflictItem.OPTIONAL_FALSE ) != 0 )
    {
        optional = false;
    }
}
return optional;
}

}

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*****/
package org.eclipse.aether.util.repository;

import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.resolution.ArtifactDescriptorPolicy;
import org.eclipse.aether.resolution.ArtifactDescriptorPolicyRequest;

/**
 * An artifact descriptor error policy that allows to control error handling at a global level.
 */
public final class SimpleArtifactDescriptorPolicy
    implements ArtifactDescriptorPolicy
{

    private final int policy;

    /**
     * Creates a new error policy with the specified behavior.
     *
     * @param ignoreMissing {@code true} to ignore missing descriptors, {@code false} to fail resolution.
     * @param ignoreInvalid {@code true} to ignore invalid descriptors, {@code false} to fail resolution.
     */
    public SimpleArtifactDescriptorPolicy( boolean ignoreMissing, boolean ignoreInvalid )

```

```

    {
        this( ( ignoreMissing ? IGNORE_MISSING : 0 ) | ( ignoreInvalid ? IGNORE_INVALID : 0 ) );
    }

/**
 * Creates a new error policy with the specified bit mask.
 *
 * @param policy The bit mask describing the policy.
 */
public SimpleArtifactDescriptorPolicy( int policy )
{
    this.policy = policy;
}

public int getPolicy( RepositorySystemSession session, ArtifactDescriptorPolicyRequest request )
{
    return policy;
}

}

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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   Sonatype, Inc. - initial API and implementation
 *****/
package org.eclipse.aether.util.repository;

import org.eclipse.aether.RepositorySystemSession;
import org.eclipse.aether.artifact.Artifact;
import org.eclipse.aether.metadata.Metadata;
import org.eclipse.aether.resolution.ResolutionErrorPolicy;
import org.eclipse.aether.resolution.ResolutionErrorPolicyRequest;

/**
 * A resolution error policy that allows to control caching for artifacts and metadata at a global level.
 */
public final class SimpleResolutionErrorPolicy
    implements ResolutionErrorPolicy
{
    private final int artifactPolicy;

    private final int metadataPolicy;

```

```

/**
 * Creates a new error policy with the specified behavior for both artifacts and metadata.
 *
 * @param cacheNotFound { @code true } to enable caching of missing items, { @code false } to disable it.
 * @param cacheTransferErrors { @code true } to enable chaching of transfer errors, { @code false } to disable it.
 */
public SimpleResolutionErrorPolicy( boolean cacheNotFound, boolean cacheTransferErrors )
{
    this( ( cacheNotFound ? CACHE_NOT_FOUND : 0 ) | ( cacheTransferErrors ? CACHE_TRANSFER_ERROR
: 0 ) );
}

/**
 * Creates a new error policy with the specified bit mask for both artifacts and metadata.
 *
 * @param policy The bit mask describing the policy for artifacts and metadata.
 */
public SimpleResolutionErrorPolicy( int policy )
{
    this( policy, policy );
}

/**
 * Creates a new error policy with the specified bit masks for artifacts and metadata.
 *
 * @param artifactPolicy The bit mask describing the policy for artifacts.
 * @param metadataPolicy The bit mask describing the policy for metadata.
 */
public SimpleResolutionErrorPolicy( int artifactPolicy, int metadataPolicy )
{
    this.artifactPolicy = artifactPolicy;
    this.metadataPolicy = metadataPolicy;
}

public int getArtifactPolicy( RepositorySystemSession session, ResolutionErrorPolicyRequest<Artifact> request )
{
    return artifactPolicy;
}

public int getMetadataPolicy( RepositorySystemSession session, ResolutionErrorPolicyRequest<Metadata>
request )
{
    return metadataPolicy;
}
}

```

# 8.13 angular 1.2.16

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## 8.14 angular-bootstrap 0.7.0

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```

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## 8.19 angular-ui-select2 0.0.5

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### 1.8.4\_1

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# 8.44 arphandler-config 0.1.1-Helium-SR1

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## 8.45 arphandler-impl 0.1.1-Helium-SR1

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*/
```

```
package javax.enterprise.context;
```

```
import static java.lang.annotation.ElementType.FIELD;  
import static java.lang.annotation.ElementType.METHOD;  
import static java.lang.annotation.ElementType.TYPE;  
import static java.lang.annotation.RetentionPolicy.RUNTIME;
```

```
import java.lang.annotation.Documented;  
import java.lang.annotation.Inherited;  
import java.lang.annotation.Retention;  
import java.lang.annotation.Target;
```

```
/**
```

```
* <p>Specifies that a bean is application scoped.</p>
```

```
*
```

```
* <p>The application scope is active:</p>
```

```
*
```

```
* <ul>
```

```
* <li>during the <tt>service()</tt> method of any servlet in
```

```
* the web application, during the <tt>doFilter()</tt> method of
```

```
* any servlet filter and when the container calls any
```

```
* <tt>ServletContextListener</tt>, <tt>HttpSessionListener</tt>,
```

```
* <tt>AsyncListener</tt> or <tt>ServletRequestListener</tt>,</li>
```

```
* <li>during any Java EE web service invocation,</li>
```

```
* <li>during any asynchronous observer method notification,</li>
```

```
* <li>during any remote method invocation of any EJB, during
```

```
* any asynchronous method invocation of any EJB, during any
```

```
* call to an EJB timeout method and during message delivery
```

```
* to any EJB message-driven bean,</li>
```

```
* <li>during any message delivery to a <tt>MessageListener</tt>
```

```
* for a JMS topic or queue obtained from the Java EE component
```

```
* environment, and</li>
```

```
* <li>when the disposer method or <tt>@PreDestroy</tt> callback of
```

```
* any bean with any normal scope other than <tt>@ApplicationScoped</tt>
```

```
* is called.</li>
```

```
* </ul>
```

```
*
```

```
* <p>The application context is shared between all servlet
```

```
* requests, asynchronous observer method notifications, web
```

```
* service invocations, EJB remote method invocations, EJB
```

```
* asynchronous method invocations, EJB timeouts and message
```

\* deliveries to message-driven beans that execute within the  
\* same application. The application context is destroyed when  
\* the application is shut down.</p>

\*  
\* @author Gavin King  
\* @author Pete Muir  
\*/

@Target( { TYPE, METHOD, FIELD })

@Retention(RUNTIME)

@Documented

@NormalScope

@Inherited

public @interface ApplicationScoped

{

}

/\*

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\*/

package javax.enterprise.inject;

/\*\*

\* <p>Indicates that a producer method returned a null value or a producer  
\* field contained a null value, and the scope of the producer method  
\* or field was not { @link javax.enterprise.context.Dependent }.</p>

\*/

public class IllegalProductException extends InjectionException

{

private static final long serialVersionUID = -6280627846071966243L;

public IllegalProductException()

{

```

    super();
}

public IllegalProductException(String message, Throwable cause)
{
    super(message, cause);
}

public IllegalProductException(String message)
{
    super(message);
}

public IllegalProductException(Throwable cause)
{
    super(cause);
}
}

```

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### 0.0.2-Helium-SR1

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## 8.59 dlux.common.general.resources 0.0.2- Helium-SR1

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# 8.62 dlux.common.navigation.resources

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# 8.65 dlux.connection\_manager.resources

## 0.0.2-Helium-SR1

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## 8.66 dlux.container.resources 0.0.2-Helium-SR1

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# 8.68 dlux.flow.resources 0.0.2-Helium-SR1

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## 8.69 dlux.loader.resources 0.0.2-Helium-SR1

### 8.69.1 Available under license :

```
<?xml version="1.0" encoding="UTF-8"?>
<module name="shutdown-impl"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:shutdown-impl="urn:opendaylight:params:xml:ns:yang:controller:shutdown:impl"
  xmlns:shutdown="urn:opendaylight:params:xml:ns:yang:controller:shutdown"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:shutdown:impl"/>
  <prefix value="shutdown-impl"/>
  <import module="shutdown">
    <prefix value="shutdown"/>
    <revision-date date="2013-12-18"/>
  </import>
  <import module="config">
    <prefix value="config"/>
```

```

    <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
</import>
<organization>
    <text>Cisco Systems, Inc.</text>
</organization>
<description>
    <text>This module contains the base YANG definitions for
shutdown implementation.

```

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```

</description>
<revision date="2013-12-18">
    <description>
        <text>Initial revision.</text>
    </description>
</revision>
<identity name="shutdown">
    <base name="config:module-type"/>
    <config:provided-service name="shutdown:shutdown"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
    <case name="shutdown">
        <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
        <leaf name="secret">
            <type name="string"/>
            <default value=""/>
        </leaf>
    </case>
</augment>
<augment target-node="/config:modules/config:module/config:state">
    <case name="shutdown">
        <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
        <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
    </case>
</augment>
<identity name="shutdown-rpc"/>
<rpc name="shutdown">
    <input>
        <uses name="rpcx:rpc-context-ref">

```

```

    <refine target-node="context-instance">
      <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
    </refine>
  </uses>
  <leaf name="input-secret">
    <type name="string"/>
  </leaf>
  <leaf name="max-wait-time">
    <type name="uint32"/>
    <description>
      <text>Maximum time in milliseconds before process is forcibly exited. Zero or null cancels this
functionality.</text>
    </description>
  </leaf>
  <leaf name="reason">
    <type name="string"/>
  </leaf>
</input>
</rpc>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-fixed"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java-fixed="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:fixed"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:fixed"/>
  <prefix value="th-java-fixed"/>
  <import module="threadpool">
    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovara@cisco.com>&gt;</text>
  </contact>

```



```
<description>
  <text>This module contains the base YANG definitions for
thread services pure Java implementation.
```

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```
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accompanies this distribution, and is available at
http://www.eclipse.org/legal/epl-v10.html</text>
```

```
</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-fixed">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadpool"/>
  <config:java-name-prefix java-prefix="FixedThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-fixed">
    <when condition="/config:modules/config:module/config:type = 'threadpool-fixed'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <container name="threadFactory">
      <uses name="config:service-ref">
        <refine target-node="type">
          <config:required-identity name="th:threadfactory"/>
        </refine>
      </uses>
    </container>
  </case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-flexible"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java-flexible="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:flexible"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:flexible"/>
  <prefix value="th-java-flexible"/>
  <import module="threadpool">
```

```

    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
</import>
<import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
</import>
<organization>
    <text>Cisco Systems, Inc.</text>
</organization>
<contact>
    <text>Robert Varga &lt;rovarga@cisco.com></text>
</contact>
<description>
    <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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```

</description>
<revision date="2013-12-01">
    <description>
        <text>Initial revision</text>
    </description>
</revision>
<identity name="threadpool-flexible">
    <base name="config:module-type"/>
    <config:provided-service name="th:threadpool"/>
    <config:java-name-prefix java-prefix="FlexibleThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
    <case name="threadpool-flexible">
        <when condition="/config:modules/config:module/config:type = 'threadpool-flexible'"/>
        <leaf name="max-thread-count">
            <type name="uint16"/>
        </leaf>
        <leaf name="minThreadCount">
            <type name="uint16"/>
        </leaf>
        <leaf name="keepAliveMillis">

```

```

    <type name="uint32"/>
  </leaf>
  <container name="threadFactory">
    <uses name="config:service-ref">
      <refine target-node="type">
        <config:required-identity name="th:threadfactory"/>
      </refine>
    </uses>
  </container>
</case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-scheduled"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java-scheduled="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:scheduled"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:scheduled"/>
  <prefix value="th-java-scheduled"/>
  <import module="threadpool">
    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovara@cisco.com></text>
  </contact>
  <description>
    <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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```
</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-scheduled">
  <base name="config:module-type"/>
  <config:provided-service name="th:scheduled-threadpool"/>
  <config:java-name-prefix java-prefix="ScheduledThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-scheduled">
    <when condition="/config:modules/config:module/config:type = 'threadpool-scheduled'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <container name="threadFactory">
      <uses name="config:service-ref">
        <refine target-node="type">
          <config:required-identity name="th:threadfactory"/>
        </refine>
      </uses>
    </container>
  </case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl"/>
  <prefix value="th-java"/>
  <import module="threadpool">
    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
```

```

    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovara@cisco.com&gt;</text>
  </contact>
  <description>
    <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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```

  </description>
  <revision date="2013-04-05">
    <description>
      <text>Updated to work with new anchors.</text>
    </description>
  </revision>
  <revision date="2013-04-03">
    <description>
      <text>Initial revision by Anton Tkacik, Tomas Olvecky and
Robert Varga.</text>
    </description>
  </revision>
  <identity name="eventbus">
    <base name="config:module-type"/>
    <config:provided-service name="th:eventbus"/>
    <config:java-name-prefix java-prefix="EventBus"/>
  </identity>
  <augment target-node="/config:modules/config:module/config:configuration">
    <case name="eventbus">
      <when condition="/config:modules/config:module/config:type = 'eventbus'"/>
    </case>
  </augment>
  <augment target-node="/config:modules/config:module/config:state">
    <case name="eventbus">
      <when condition="/config:modules/config:module/config:type = 'eventbus'"/>
      <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
    </case>
  </augment>
  <identity name="event-bus-rpc"/>

```

```

<identity name="async-eventbus">
  <base name="config:module-type"/>
  <config:provided-service name="th:eventbus"/>
  <config:java-name-prefix java-prefix="AsyncEventBus"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="async-eventbus">
    <when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
    <container name="threadpool">
      <uses name="config:service-ref">
        <refine target-node="type">
          <config:required-identity name="th:threadpool"/>
        </refine>
      </uses>
    </container>
  </case>
</augment>
<augment target-node="/config:modules/config:module/config:state">
  <case name="async-eventbus">
    <when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
    <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
  </case>
</augment>
<rpc name="get-dead-events-count">
  <config:java-name-prefix java-prefix="countDeadEvents"/>
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
      </refine>
    </uses>
  </input>
  <output>
    <leaf name="result">
      <type name="uint32"/>
    </leaf>
  </output>
</rpc>
<identity name="threadfactory-naming">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadfactory"/>
  <config:java-name-prefix java-prefix="NamingThreadFactory"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadfactory-naming">
    <when condition="/config:modules/config:module/config:type = 'threadfactory-naming'"/>
    <leaf name="name-prefix">
      <type name="string"/>
    </leaf>
  </case>
</augment>

```

</leaf>  
</case>  
</augment>  
</module>

## 8.70 dlux.network.resources 0.0.2-Helium-SR1

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# 8.71 dlux.node.resources 0.0.2-Helium-SR1

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## 8.72 dlux.topology.resources 0.0.2-Helium-SR1

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 * http://www.eclipse.org/legal/epl-v10.html
 */
package org.eclipse.xtend.lib.macro.declaration;
```

```
import com.google.common.annotations.Beta;
```

```

/**
 * @author Sven Efftinge
 */
@Beta
public interface PrimitiveType extends Type {
/**
 * Returns the kind of primitive type that this object represents.
 *
 * @return the kind of primitive type that this object represents
 */
Kind getKind();

/**
 * An enumeration of the different kinds of primitive types.
 */
enum Kind {
/** The primitive type <tt>boolean</tt> */
BOOLEAN,
/** The primitive type <tt>byte</tt> */
BYTE,
/** The primitive type <tt>short</tt> */
SHORT,
/** The primitive type <tt>int</tt> */
INT,
/** The primitive type <tt>long</tt> */
LONG,
/** The primitive type <tt>char</tt> */
CHAR,
/** The primitive type <tt>float</tt> */
FLOAT,
/** The primitive type <tt>double</tt> */
DOUBLE
}
}

```

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# 8.85 Guava: Google Core Libraries for Java

## 14.0.1

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## 8.86 hosttracker-config 0.1.1-Helium-SR1

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# 8.87 hosttracker-impl 0.1.1-Helium-SR1

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```

```
*/
```

```
package org.opendaylight.l2switch.hosttracker.plugin.internal;
```

```
import java.math.BigInteger;
```

```
import java.util.Date;
```

```
import org.opendaylight.controller.sal.binding.api.NotificationService;
```

```
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.IpAddress;
```

```
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.Ipv4Address;
```

```
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.yang.types.rev100924.MacAddress;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.Addresses;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.AddressesBuilder
```

```
;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.AddressesKey;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRef;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.arp.rev140528.ArpPacketListener;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.arp.rev140528.ArpPacketReceived;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.packet.arp.rev140528.arp.packet.received.packet.chain.packet.ArpP
```

```
acket;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.basepacket.rev140528.packet.chain.grp.PacketChain;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.packet.basepacket.rev140528.packet.chain.grp.packet.chain.packet.
```

```
RawPacket;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.KnownEtherType;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.VlanId;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.ethernet.packet.received.packet.chain.pac
```

```
ket.EthernetPacket;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv4.rev140528.Ipv4PacketListener;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv4.rev140528.Ipv4PacketReceived;
```

```
import
```

```
org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv4.rev140528.ipv4.packet.received.packet.chain.packet.Ipv
```

```
4Packet;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv6.rev140528.Ipv6PacketListener;
```

```

import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv6.rev140528.Ipv6PacketReceived;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv6.rev140528.ipv6.packet.received.packet.chain.packet.Ipv
6Packet;

/**
 * A Simple Address Observer based on I2switch address observer.
 */
public class SimpleAddressObserver implements ArpPacketListener, Ipv4PacketListener, Ipv6PacketListener {

    private final String IPV4_IP_TO_IGNORE = "0.0.0.0";
    private final String IPV6_IP_TO_IGNORE = "0:0:0:0:0:0:0:0";

    private HostTrackerImpl hostTrackerImpl;
    private NotificationService notificationService;

    public SimpleAddressObserver(HostTrackerImpl hostTrackerImpl, NotificationService notificationService) {
        this.hostTrackerImpl = hostTrackerImpl;
        this.notificationService = notificationService;
    }

    void registerAsNotificationListener() {
        this.notificationService.registerNotificationListener(this);
    }

    @Override
    public void onArpPacketReceived(ArpPacketReceived packetReceived) {
        if (packetReceived == null || packetReceived.getPacketChain() == null) {
            return;
        }

        RawPacket rawPacket = null;
        EthernetPacket ethernetPacket = null;
        ArpPacket arpPacket = null;
        for (PacketChain packetChain : packetReceived.getPacketChain()) {
            if (packetChain.getPacket() instanceof RawPacket) {
                rawPacket = (RawPacket) packetChain.getPacket();
            } else if (packetChain.getPacket() instanceof EthernetPacket) {
                ethernetPacket = (EthernetPacket) packetChain.getPacket();
            } else if (packetChain.getPacket() instanceof ArpPacket) {
                arpPacket = (ArpPacket) packetChain.getPacket();
            }
        }
        if (rawPacket == null || ethernetPacket == null || arpPacket == null) {
            return;
        }
        VlanId vlanId = null;

```



```

if (ethernetPacket.getEtherType().equals(KnownEtherType.VlanTagged)) {
    vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
}
MacAddress sourceMac = ethernetPacket.getSourceMac();
IpAddress ipAddress = null;
if (arpPacket.getProtocolType().equals(KnownEtherType.Ipv4)) {
    ipAddress = new IpAddress(new Ipv4Address(arpPacket.getSourceProtocolAddress()));
}
Addresses addr = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEtherType());
if (addr == null) {
    return;
}
NodeConnectorRef ingress = rawPacket.getIngress();
hostTrackerImpl.packetReceived(addr, ingress.getValue());
}

```

@Override

```

public void onIpv4PacketReceived(Ipv4PacketReceived packetReceived) {
    if (packetReceived == null || packetReceived.getPacketChain() == null) {
        return;
    }

    RawPacket rawPacket = null;
    EthernetPacket ethernetPacket = null;
    Ipv4Packet ipv4Packet = null;
    for (PacketChain packetChain : packetReceived.getPacketChain()) {
        if (packetChain.getPacket() instanceof RawPacket) {
            rawPacket = (RawPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof EthernetPacket) {
            ethernetPacket = (EthernetPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof Ipv4Packet) {
            ipv4Packet = (Ipv4Packet) packetChain.getPacket();
        }
    }
    if (rawPacket == null || ethernetPacket == null || ipv4Packet == null) {
        return;
    }

    if (IPV4_IP_TO_IGNORE.equals(ipv4Packet.getSourceIpv4().getValue())) {
        return;
    }
}

```

```

VlanId vlanId = null;
if (ethernetPacket.getEtherType().equals(KnownEtherType.VlanTagged)) {
    vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
}
MacAddress sourceMac = ethernetPacket.getSourceMac();
IpAddress ipAddress = new IpAddress(ipv4Packet.getSourceIpv4());

```

```

Addresses addr = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
if (addr == null) {
    return;
}
NodeConnectorRef ingress = rawPacket.getIngress();
hostTrackerImpl.packetReceived(addr, ingress.getValue());
}

@Override
public void onIpv6PacketReceived(Ipv6PacketReceived packetReceived) {
    if (packetReceived == null || packetReceived.getPacketChain() == null) {
        return;
    }

    RawPacket rawPacket = null;
    EthernetPacket ethernetPacket = null;
    Ipv6Packet ipv6Packet = null;
    for (PacketChain packetChain : packetReceived.getPacketChain()) {
        if (packetChain.getPacket() instanceof RawPacket) {
            rawPacket = (RawPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof EthernetPacket) {
            ethernetPacket = (EthernetPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof Ipv6Packet) {
            ipv6Packet = (Ipv6Packet) packetChain.getPacket();
        }
    }
    if (rawPacket == null || ethernetPacket == null || ipv6Packet == null) {
        return;
    }
    if (IPV6_IP_TO_IGNORE.equals(ipv6Packet.getSourceIpv6().getValue())) {
        return;
    }

    VlanId vlanId = null;
    if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
        vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
    }
    MacAddress sourceMac = ethernetPacket.getSourceMac();
    IpAddress ipAddress = new IpAddress(ipv6Packet.getSourceIpv6());

    Addresses addr = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
    if (addr == null) {
        return;
    }
    NodeConnectorRef ingress = rawPacket.getIngress();
    hostTrackerImpl.packetReceived(addr, ingress.getValue());
}

```

```

private Addresses createAddresses(MacAddress srcMacAddr, VlanId vlanId, IpAddress srcIpAddr,
KnownEtherType ketype) {
    AddressesBuilder addr = new AddressesBuilder();
    if (srcMacAddr == null || srcIpAddr == null) {
        return null;
    }
    /**
     * TODO: if this is used, use a ReadWriteTransaction to figure out if
     * there is an already existing addresses that has the same MAC, IP,
     * VLAN triple and use its ID then, if there's none, then we make up
     * our own Addresses
     */
    BigInteger id =
    BigInteger.valueOf(ketype.getIntValue()).abs().add(BigInteger.valueOf(srcMacAddr.hashCode()).abs().shiftLeft(16
));
    addr.setId(id);
    addr.setKey(new AddressesKey(addr.getId()));
    addr.setVlan(vlanId);
    addr.setIp(srcIpAddr);
    addr.setMac(srcMacAddr);
    //    addr.setFirstSeen(new Date().getTime());
    addr.setLastSeen(new Date().getTime());
    return addr.build();
}
}
/**
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.l2switch.hosttracker.plugin.internal;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ExecutorService;

```

```

import java.util.concurrent.Executors;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.binding.api.WriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.l2switch.hosttracker.plugin.inventory.Host;
import org.opendaylight.l2switch.hosttracker.plugin.util.Utilities;
import org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.AddressCapableNodeConnector;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.Addresses;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.HostId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.HostNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.host.AttachmentPointsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.NetworkTopology;
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.TopologyId;
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.TpId;
import
org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.Topology
;
import
org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.Topology
Key;
import
org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology.
Link;
import
org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology.
Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class HostTrackerImpl implements DataChangeListener {

    private static final int CPUS = Runtime.getRuntime().availableProcessors();

    /**
     * As defined on
     * controller/opendaylight/md-sal/topology-
manager/src/main/java/org/opendaylight/md/controller/topology/manager/FlowCapableTopologyProvider.java
     */

```

```

private static final String TOPOLOGY_NAME = "flow:1";

private static final Logger log = LoggerFactory.getLogger(HostTrackerImpl.class);

private final DataBroker dataService;
private final String topologyId;

ExecutorService exec = Executors.newFixedThreadPool(CPUS);

private final ConcurrentClusterAwareHostHashMap<HostId, Host> hosts;
private ListenerRegistration<DataChangeListener> addrNodeLisrRegistration;
private ListenerRegistration<DataChangeListener> hostNodeLisrRegistration;

public HostTrackerImpl(DataBroker dataService, String topologyId) {
    Preconditions.checkNotNull(dataService, "dataBrokerService should not be null.");
    this.dataService = dataService;
    if (topologyId == null || topologyId.isEmpty()) {
        this.topologyId = TOPOLOGY_NAME;
    } else {
        this.topologyId = topologyId;
    }
    this.hosts = new ConcurrentClusterAwareHostHashMap<>(dataService, this.topologyId);
}

public void registerAsDataChangeListener() {
    InstanceIdentifier<Addresses> addrCapableNodeConnectors = //
        InstanceIdentifier.builder(Nodes.class) //
            .child(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node.class) //
            .child(NodeConnector.class) //
            .augmentation(AddressCapableNodeConnector.class) //
            .child(Addresses.class).build();
    this.addrNodeLisrRegistration =
dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, addrCapableNodeConnectors,
this, DataChangeScope.SUBTREE);

    InstanceIdentifier<HostNode> hostNodes = InstanceIdentifier.builder(NetworkTopology.class) //
        .child(Topology.class, new TopologyKey(new TopologyId(topologyId))) //
        .child(Node.class)
        .augmentation(HostNode.class).build();
    this.hostNodeLisrRegistration =
dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, hostNodes, this,
DataChangeScope.SUBTREE);

    InstanceIdentifier<Link> IIID = InstanceIdentifier.builder(NetworkTopology.class) //
        .child(Topology.class, new TopologyKey(new TopologyId(topologyId))) //
        .child(Link.class).build();

    this.addrNodeLisrRegistration =

```

```

dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, IIID, this,
DataChangeScope.BASE);

    //Processing addresses that existed before we register as a data change listener.
//    ReadOnlyTransaction newReadOnlyTransaction = dataService.newReadOnlyTransaction();
//    InstanceIdentifier<NodeConnector> iinc =
addrCapableNodeConnectors.firstIdentifierOf(NodeConnector.class);
//    InstanceIdentifier<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> iin//
//        =
addrCapableNodeConnectors.firstIdentifierOf(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.
nodes.Node.class);
//    ListenableFuture<Optional<NodeConnector>> dataFuture =
newReadOnlyTransaction.read(LogicalDatastoreType.OPERATIONAL, iinc);
//    try {
//        NodeConnector get = dataFuture.get().get();
//        log.trace("test "+get);
//    } catch (InterruptedException | ExecutionException ex) {
//        java.util.logging.Logger.getLogger(HostTrackerImpl.class.getName()).log(Level.SEVERE, null, ex);
//    }
//    Futures.addCallback(dataFuture, new FutureCallback<Optional<NodeConnector>>() {
//        @Override
//        public void onSuccess(final Optional<NodeConnector> result) {
//            if (result.isPresent()) {
//                log.trace("Processing NEW NODE? " + result.get().getId().getValue());
////                processHost(result, dataObject, node);
//            }
//        }
//    });
//    @Override
//    public void onFailure(Throwable arg0) {
//    }
//    });
}

```

```

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> change) {

```

```

    exec.submit(new Runnable() {
        @Override
        public void run() {
            if (change == null) {
                log.info("In onDataChanged: No processing done as change even is null.");
                return;
            }
            Map<InstanceIdentifier<?>, DataObject> updatedData = change.getUpdatedData();
            Map<InstanceIdentifier<?>, DataObject> createdData = change.getCreatedData();
            Map<InstanceIdentifier<?>, DataObject> originalData = change.getOriginalData();
            Set<InstanceIdentifier<?>> deletedData = change.getRemovedPaths();

```

```

for (InstanceIdentifier<?> iid : deletedData) {
    if (iid.getTargetType().equals(Node.class)) {
        Node node = ((Node) originalData.get(iid));
        InstanceIdentifier<Node> iiN = (InstanceIdentifier<Node>) iid;
        HostNode hostNode = node.getAugmentation(HostNode.class);
        if (hostNode != null) {
            synchronized (hosts) {
                try {
                    hosts.removeLocally(iiN);
                } catch (ClassCastException ex) {
                }
            }
        }
    } else if (iid.getTargetType().equals(Link.class)) {
        // TODO performance improvement here
        linkRemoved((InstanceIdentifier<Link>) iid, (Link) originalData.get(iid));
    }
}

for (Map.Entry<InstanceIdentifier<?>, DataObject> entrySet : updatedData.entrySet()) {
    InstanceIdentifier<?> iiD = entrySet.getKey();
    final DataObject dataObject = entrySet.getValue();
    if (dataObject instanceof Addresses) {
        packetReceived((Addresses) dataObject, iiD);
    } else if (dataObject instanceof Node) {
        synchronized (hosts) {
            hosts.putLocally((InstanceIdentifier<Node>) iiD, Host.createHost((Node) dataObject));
        }
    }
}

for (Map.Entry<InstanceIdentifier<?>, DataObject> entrySet : createdData.entrySet()) {
    InstanceIdentifier<?> iiD = entrySet.getKey();
    final DataObject dataObject = entrySet.getValue();
    if (dataObject instanceof Addresses) {
        packetReceived((Addresses) dataObject, iiD);
    } else if (dataObject instanceof Node) {
        synchronized (hosts) {
            hosts.putLocally((InstanceIdentifier<Node>) iiD, Host.createHost((Node) dataObject));
        }
    }
}
});
}

public void packetReceived(Addresses addr, InstanceIdentifier<?> ii) {

```

```

InstanceIdentifier<NodeConnector> iinc = ii.firstIdentifierOf(NodeConnector.class);
InstanceIdentifier<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> iin//
    =
ii.firstIdentifierOf(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node.class);

    ListenableFuture<Optional<NodeConnector>> futureNodeConnector;
ListenableFuture<Optional<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node>> fut
ureNode;
    try (ReadOnlyTransaction readTx = dataService.newReadOnlyTransaction()) {
        futureNodeConnector = readTx.read(LogicalDatastoreType.OPERATIONAL, iinc);
        futureNode = readTx.read(LogicalDatastoreType.OPERATIONAL, iin);
        readTx.close();
    }
    Optional<NodeConnector> opNodeConnector = null;
    Optional<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> opNode = null;
    try {
        opNodeConnector = futureNodeConnector.get();
        opNode = futureNode.get();
    } catch (ExecutionException | InterruptedException ex) {
        log.warn(ex.getLocalizedMessage());
    }
    if (opNode != null && opNode.isPresent()
        && opNodeConnector != null && opNodeConnector.isPresent()) {
        processHost(opNode.get(), opNodeConnector.get(), addr);
    }
}

private void processHost(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node node,
    NodeConnector nodeConnector,
    Addresses addr) {
    List<Host> hostsToMod = new ArrayList<>();
    List<Host> hostsToRem = new ArrayList<>();
    List<Link> linksToRem = new ArrayList<>();
    List<Link> linksToAdd = new ArrayList<>();
    synchronized (hosts) {
        log.trace("Processing nodeConnector " + nodeConnector.getId().toString());
        HostId hId = Host.createHostId(addr);
        if (hId != null) {
            if (isNodeConnectorInternal(nodeConnector)) {
                log.trace("NodeConnector is internal " + nodeConnector.getId().toString());

                removeNodeConnectorFromHost(hostsToMod, hostsToRem, nodeConnector);
                hosts.removeAll(hostsToRem);
                hosts.putAll(hostsToMod);
            } else {
                log.trace("NodeConnector is NOT internal " + nodeConnector.getId().toString());
                Host host = new Host(addr, nodeConnector);
                if (hosts.containsKey(host.getId())) {

```



```

        hosts.get(host.getId()).mergeHostWith(host);
    } else {
        hosts.put(host.getId(), host);
    }
    List<Link> newLinks = hosts.get(host.getId()).createLinks(node);
    if (newLinks != null) {
        linksToAdd.addAll(newLinks);
    }
    hosts.submit(host.getId());
}
}
}
writeDatatoMDSAL(linksToAdd, linksToRem);
}

/**
 * It verifies if a given NodeConnector is *internal*. An *internal*
 * NodeConnector is considered to be all NodeConnetors that are NOT attached
 * to hosts created by hosttracker.
 *
 * @param nodeConnector the nodeConnector to check if it is internal or not.
 * @return true if it was found a host connected to this nodeConnetor, false
 * if it was not found a network topology or it was not found a host
 * connected to this nodeConnetor.
 */
private boolean isNodeConnectorInternal(NodeConnector nodeConnector) {
    TpId tpId = new TpId(nodeConnector.getKey().getId().getValue());
    InstanceIdentifier<NetworkTopology> ntII
        = InstanceIdentifier.builder(NetworkTopology.class).build();
    ListenableFuture<Optional<NetworkTopology>> lfONT;
    try (ReadOnlyTransaction rot = dataService.newReadOnlyTransaction()) {
        lfONT = rot.read(LogicalDatastoreType.OPERATIONAL, ntII);
        rot.close();
    }
    Optional<NetworkTopology> oNT;
    try {
        oNT = lfONT.get();
    } catch (InterruptedException | ExecutionException ex) {
        log.warn(ex.getMessage());
        return false;
    }
    if (oNT != null && oNT.isPresent()) {
        NetworkTopology networkTopo = oNT.get();
        for (Topology t : networkTopo.getTopology()) {
            if (t.getLink() != null) {
                for (Link l : t.getLink()) {
                    if ((l.getSource().getSourceTp().equals(tpId)
                        && !l.getDestination().getDestTp().getValue().startsWith(Host.NODE_PREFIX))

```

```

        || (l.getDestination().getDestTp().equals(tpId)
        && !l.getSource().getSourceTp().getValue().startsWith(Host.NODE_PREFIX))) {
        return true;
    }
    }
    }
    }
    }
    return false;
}

private void removeLinksFromHosts(List<Host> hostsToMod, List<Host> hostsToRem, Link linkRemoved) {
    for (Host h : hosts.values()) {
        h.removeTerminationPoint(linkRemoved.getSource().getSourceTp());
        h.removeTerminationPoint(linkRemoved.getDestination().getDestTp());
        if (h.isOrphan()) {
            hostsToRem.add(h);
        } else {
            hostsToMod.add(h);
        }
    }
}

private void removeNodeConnectorFromHost(List<Host> hostsToMod, List<Host> hostsToRem, NodeConnector
nc) {
    AttachmentPointsBuilder atStD = Utilities.createAPsfromNodeConnector(nc);
    for (Host h : hosts.values()) {
        h.removeAttachmentPoints(atStD);
        if (h.isOrphan()) {
            hostsToRem.add(h);
        } else {
            hostsToMod.add(h);
        }
    }
}

private void linkRemoved(InstanceIdentifier<Link> iiLink, Link linkRemoved) {
    log.trace("linkRemoved");
    List<Host> hostsToMod = new ArrayList<>();
    List<Host> hostsToRem = new ArrayList<>();
    synchronized (hosts) {
        removeLinksFromHosts(hostsToMod, hostsToRem, linkRemoved);
        hosts.removeAll(hostsToRem);
        hosts.putAll(hostsToMod);
    }
}

private void writeDatatoMDSAL(List<Link> linksToAdd, List<Link> linksToRemove) {

```

```

final WriteTransaction writeTx = dataService.newWriteOnlyTransaction();
if (linksToAdd != null) {
    for (Link l : linksToAdd) {
        InstanceIdentifier<Link> IIID = Utilities.buildLinkIID(l.getKey(), topologyId);
        log.trace("Writing link from MD_SAL: " + IIID.toString());
        writeTx.merge(LogicalDatastoreType.OPERATIONAL, IIID, l, true);
    }
}
if (linksToRemove != null) {
    for (Link l : linksToRemove) {
        InstanceIdentifier<Link> IIID = Utilities.buildLinkIID(l.getKey(), topologyId);
        log.trace("Removing link from MD_SAL: " + IIID.toString());
        writeTx.delete(LogicalDatastoreType.OPERATIONAL, IIID);
    }
}
final CheckedFuture writeTxResultFuture = writeTx.submit();
Futures.addCallback(writeTxResultFuture, new FutureCallback() {
    @Override
    public void onSuccess(Object o) {
        log.debug("Hosttracker write successful for tx :{}", writeTx.getIdentifier());
    }

    @Override
    public void onFailure(Throwable throwable) {
        log.error("Hosttracker write transaction {} failed", writeTx.getIdentifier(), throwable.getCause());
    }
});
}

public void close() {
    this.addrsNodeListerRegistration.close();
    this.hostNodeListerRegistration.close();
    synchronized (hosts) {
        this.hosts.clear();
    }
}
}
}

```

## 8.88 hosttracker-model 0.1.1-Helium-SR1

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# 8.89 httpclient 3.1

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# 8.94 Java Servlet API 3.0.1

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# 8.95 JLine 2.11

## 8.95.1 Available under license :

```
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 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer which contains multiple completers and aggregates them together.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
```



```

public class AggregateCompleter
    implements Completer
{
    private final List<Completer> completers = new ArrayList<Completer>();

    public AggregateCompleter() {
        // empty
    }

    /**
     * Construct an AggregateCompleter with the given collection of completers.
     * The completers will be used in the iteration order of the collection.
     *
     * @param completers the collection of completers
     */
    public AggregateCompleter(final Collection<Completer> completers) {
        checkNotNull(completers);
        this.completers.addAll(completers);
    }

    /**
     * Construct an AggregateCompleter with the given completers.
     * The completers will be used in the order given.
     *
     * @param completers the completers
     */
    public AggregateCompleter(final Completer... completers) {
        this(Arrays.asList(completers));
    }

    /**
     * Retrieve the collection of completers currently being aggregated.
     *
     * @return the aggregated completers
     */
    public Collection<Completer> getCompleters() {
        return completers;
    }

    /**
     * Perform a completion operation across all aggregated completers.
     *
     * @see Completer#complete(String, int, java.util.List)
     * @return the highest completion return value from all completers
     */
    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer could be null
        checkNotNull(candidates);
    }
}

```

```

List<Completion> completions = new ArrayList<Completion>(completers.size());

// Run each completer, saving its completion results
int max = -1;
for (Completer completer : completers) {
    Completion completion = new Completion(candidates);
    completion.complete(completer, buffer, cursor);

    // Compute the max cursor position
    max = Math.max(max, completion.cursor);

    completions.add(completion);
}

// Append candidates from completions which have the same cursor position as max
for (Completion completion : completions) {
    if (completion.cursor == max) {
        candidates.addAll(completion.candidates);
    }
}

return max;
}

/**
 * @return a string representing the aggregated completers
 */
@Override
public String toString() {
    return getClass().getSimpleName() + "{" +
        "completers=" + completers +
        '}';
}

private class Completion
{
    public final List<CharSequence> candidates;

    public int cursor;

    public Completion(final List<CharSequence> candidates) {
        checkNotNull(candidates);
        this.candidates = new LinkedList<CharSequence>(candidates);
    }

    public void complete(final Completer completer, final String buffer, final int cursor) {
        checkNotNull(completer);

```

```

        this.cursor = completer.complete(buffer, cursor, candidates);
    }
}
}
/*
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 *
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 * BSD license in the documentation provided with this software.
 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import jline.internal.Log;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A { @link Completer } implementation that invokes a child completer using the appropriate <i>separator</i>
 * argument.
 * This can be used instead of the individual completers having to know about argument parsing semantics.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class ArgumentCompleter
    implements Completer
{
    private final ArgumentDelimiter delimiter;

    private final List<Completer> completers = new ArrayList<Completer>();

    private boolean strict = true;

    /**
     * Create a new completer with the specified argument delimiter.
     *
     * @param delimiter The delimiter for parsing arguments
     * @param completers The embedded completers
     */

```

```

public ArgumentCompleter(final ArgumentDelimiter delimiter, final Collection<Completer> completers) {
    this.delimiter = checkNotNull(delimiter);
    checkNotNull(completers);
    this.completers.addAll(completers);
}

/**
 * Create a new completer with the specified argument delimiter.
 *
 * @param delimiter The delimiter for parsing arguments
 * @param completers The embedded completers
 */
public ArgumentCompleter(final ArgumentDelimiter delimiter, final Completer... completers) {
    this(delimiter, Arrays.asList(completers));
}

/**
 * Create a new completer with the default { @link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final Completer... completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * Create a new completer with the default { @link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final List<Completer> completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * If true, a completion at argument index N will only succeed
 * if all the completions from 0-(N-1) also succeed.
 */
public void setStrict(final boolean strict) {
    this.strict = strict;
}

/**
 * Returns whether a completion at argument index N will success
 * if all the completions from arguments 0-(N-1) also succeed.
 *
 * @return True if strict.
 * @since 2.3

```

```

*/
public boolean isStrict() {
    return this.strict;
}

/**
 * @since 2.3
 */
public ArgumentDelimiter getDelimiter() {
    return delimiter;
}

/**
 * @since 2.3
 */
public List<Completer> getCompleters() {
    return completers;
}

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer can be null
    checkNotNull(candidates);

    ArgumentDelimiter delim = getDelimiter();
    ArgumentList list = delim.delimit(buffer, cursor);
    int argpos = list.getArgumentPosition();
    int argIndex = list.getCursorArgumentIndex();

    if (argIndex < 0) {
        return -1;
    }

    List<Completer> completers = getCompleters();
    Completer completer;

    // if we are beyond the end of the completers, just use the last one
    if (argIndex >= completers.size()) {
        completer = completers.get(completers.size() - 1);
    }
    else {
        completer = completers.get(argIndex);
    }

    // ensure that all the previous completers are successful before allowing this completer to pass (only if strict).
    for (int i = 0; isStrict() && (i < argIndex); i++) {
        Completer sub = completers.get(i >= completers.size() ? (completers.size() - 1) : i);
        String[] args = list.getArguments();
        String arg = (args == null || i >= args.length) ? "" : args[i];

```

```

List<CharSequence> subCandidates = new LinkedList<CharSequence>();

if (sub.complete(arg, arg.length(), subCandidates) == -1) {
    return -1;
}

if (subCandidates.size() == 0) {
    return -1;
}
}

int ret = completer.complete(list.getCursorArgument(), argpos, candidates);

if (ret == -1) {
    return -1;
}

int pos = ret + list.getBufferPosition() - argpos;

// Special case: when completing in the middle of a line, and the area under the cursor is a delimiter,
// then trim any delimiters from the candidates, since we do not need to have an extra delimiter.
//
// E.g., if we have a completion for "foo", and we enter "f bar" into the buffer, and move to after the "f"
// and hit TAB, we want "foo bar" instead of "foo bar".

if ((cursor != buffer.length()) && delim.isDelimiter(buffer, cursor)) {
    for (int i = 0; i < candidates.size(); i++) {
        CharSequence val = candidates.get(i);

        while (val.length() > 0 && delim.isDelimiter(val, val.length() - 1)) {
            val = val.subSequence(0, val.length() - 1);
        }

        candidates.set(i, val);
    }
}

Log.trace("Completing ", buffer, " (pos=", cursor, ") with: ", candidates, ": offset=", pos);

return pos;
}

/**
 * The {@link ArgumentCompleter.ArgumentDelimiter} allows custom breaking up of a {@link String} into
 * individual
 * arguments in order to dispatch the arguments to the nested {@link Completer}.
 *

```

```

* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
*/
public static interface ArgumentDelimiter
{
    /**
     * Break the specified buffer into individual tokens that can be completed on their own.
     *
     * @param buffer The buffer to split
     * @param pos The current position of the cursor in the buffer
     * @return The tokens
     */
    ArgumentList delimit(CharSequence buffer, int pos);

    /**
     * Returns true if the specified character is a whitespace parameter.
     *
     * @param buffer The complete command buffer
     * @param pos The index of the character in the buffer
     * @return True if the character should be a delimiter
     */
    boolean isDelimiter(CharSequence buffer, int pos);
}

/**
 * Abstract implementation of a delimiter that uses the { @link #isDelimiter } method to determine if a particular
 * character should be used as a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public abstract static class AbstractArgumentDelimiter
    implements ArgumentDelimiter
{
    // TODO: handle argument quoting and escape characters

    private char[] quoteChars = {"'", ""};

    private char[] escapeChars = {"\\"};

    public void setQuoteChars(final char[] chars) {
        this.quoteChars = chars;
    }

    public char[] getQuoteChars() {
        return this.quoteChars;
    }

    public void setEscapeChars(final char[] chars) {
        this.escapeChars = chars;
    }
}

```

```

}

public char[] getEscapeChars() {
    return this.escapeChars;
}

public ArgumentList delimit(final CharSequence buffer, final int cursor) {
    List<String> args = new LinkedList<String>();
    StringBuilder arg = new StringBuilder();
    int argpos = -1;
    int bindex = -1;

    for (int i = 0; (buffer != null) && (i <= buffer.length()); i++) {
        // once we reach the cursor, set the
        // position of the selected index
        if (i == cursor) {
            bindex = args.size();
            // the position in the current argument is just the
            // length of the current argument
            argpos = arg.length();
        }

        if ((i == buffer.length()) || isDelimiter(buffer, i)) {
            if (arg.length() > 0) {
                args.add(arg.toString());
                arg.setLength(0); // reset the arg
            }
        }
        else {
            arg.append(buffer.charAt(i));
        }
    }

    return new ArgumentList(args.toArray(new String[args.size()]), bindex, argpos, cursor);
}

/**
 * Returns true if the specified character is a whitespace parameter. Check to ensure that the character is not
 * escaped by any of { @link #getQuoteChars}, and is not escaped by ant of the { @link #getEscapeChars}, and
 * returns true from { @link #isDelimiterChar}.
 *
 * @param buffer The complete command buffer
 * @param pos The index of the character in the buffer
 * @return True if the character should be a delimiter
 */
public boolean isDelimiter(final CharSequence buffer, final int pos) {
    return !isQuoted(buffer, pos) && !isEscaped(buffer, pos) && isDelimiterChar(buffer, pos);
}

```



```

public boolean isQuoted(final CharSequence buffer, final int pos) {
    return false;
}

public boolean isEscaped(final CharSequence buffer, final int pos) {
    if (pos <= 0) {
        return false;
    }

    for (int i = 0; (escapeChars != null) && (i < escapeChars.length);
        i++) {
        if (buffer.charAt(pos) == escapeChars[i]) {
            return !isEscaped(buffer, pos - 1); // escape escape
        }
    }

    return false;
}

/**
 * Returns true if the character at the specified position is a delimiter. This method will only be called if
 * the character is not enclosed in any of the {@link #getQuoteChars}, and is not escaped by any of the
 * {@link #getEscapeChars}. To perform escaping manually, override {@link #isDelimiter} instead.
 */
public abstract boolean isDelimiterChar(CharSequence buffer, int pos);
}

/**
 * {@link ArgumentCompleter.ArgumentDelimiter} implementation that counts all whitespace (as reported by
 * {@link Character#isWhitespace}) as being a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class WhitespaceArgumentDelimiter
    extends AbstractArgumentDelimiter
{
    /**
     * The character is a delimiter if it is whitespace, and the
     * preceding character is not an escape character.
     */
    @Override
    public boolean isDelimiterChar(final CharSequence buffer, final int pos) {
        return Character.isWhitespace(buffer.charAt(pos));
    }
}

/**

```

```

* The result of a delimited buffer.
*
* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
*/
public static class ArgumentList
{
    private String[] arguments;

    private int cursorArgumentIndex;

    private int argumentPosition;

    private int bufferPosition;

    /**
     * @param arguments      The array of tokens
     * @param cursorArgumentIndex  The token index of the cursor
     * @param argumentPosition  The position of the cursor in the current token
     * @param bufferPosition    The position of the cursor in the whole buffer
     */
    public ArgumentList(final String[] arguments, final int cursorArgumentIndex, final int argumentPosition, final
int bufferPosition) {
        this.arguments = checkNotNull(arguments);
        this.cursorArgumentIndex = cursorArgumentIndex;
        this.argumentPosition = argumentPosition;
        this.bufferPosition = bufferPosition;
    }

    public void setCursorArgumentIndex(final int i) {
        this.cursorArgumentIndex = i;
    }

    public int getCursorArgumentIndex() {
        return this.cursorArgumentIndex;
    }

    public String getCursorArgument() {
        if ((cursorArgumentIndex < 0) || (cursorArgumentIndex >= arguments.length)) {
            return null;
        }

        return arguments[cursorArgumentIndex];
    }

    public void setArgumentPosition(final int pos) {
        this.argumentPosition = pos;
    }
}

```

```

    public int getArgumentPosition() {
        return this.argumentPosition;
    }

    public void setArguments(final String[] arguments) {
        this.arguments = arguments;
    }

    public String[] getArguments() {
        return this.arguments;
    }

    public void setBufferPosition(final int pos) {
        this.bufferPosition = pos;
    }

    public int getBufferPosition() {
        return this.bufferPosition;
    }
}
}
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 *
 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import jline.console.ConsoleReader;
import jline.console.CursorBuffer;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
import java.util.Set;

/**
 * A {@link CompletionHandler} that deals with multiple distinct completions
 * by outputting the complete list of possibilities to the console. This
 * mimics the behavior of the
 * <a href="http://www.gnu.org/directory/readline.html">readline</a> library.

```

```

*
* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
* @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
* @since 2.3
*/
public class CandidateListCompletionHandler
    implements CompletionHandler
{
    // TODO: handle quotes and escaped quotes && enable automatic escaping of whitespace

    public boolean complete(final ConsoleReader reader, final List<CharSequence> candidates, final int pos) throws
        IOException
    {
        CursorBuffer buf = reader.getCursorBuffer();

        // if there is only one completion, then fill in the buffer
        if (candidates.size() == 1) {
            CharSequence value = candidates.get(0);

            // fail if the only candidate is the same as the current buffer
            if (value.equals(buf.toString())) {
                return false;
            }

            setBuffer(reader, value, pos);

            return true;
        }
        else if (candidates.size() > 1) {
            String value = getUnambiguousCompletions(candidates);
            setBuffer(reader, value, pos);
        }

        printCandidates(reader, candidates);

        // redraw the current console buffer
        reader.drawLine();

        return true;
    }

    public static void setBuffer(final ConsoleReader reader, final CharSequence value, final int offset) throws
        IOException
    {
        while ((reader.getCursorBuffer().cursor > offset) && reader.backspace()) {
            // empty
        }
    }
}

```

```

    reader.putString(value);
    reader.setCursorPosition(offset + value.length());
}

/**
 * Print out the candidates. If the size of the candidates is greater than the
 * {@link ConsoleReader#getAutoprintThreshold}, they prompt with a warning.
 *
 * @param candidates the list of candidates to print
 */
public static void printCandidates(final ConsoleReader reader, Collection<CharSequence> candidates) throws
    IOException
{
    Set<CharSequence> distinct = new HashSet<CharSequence>(candidates);

    if (distinct.size() > reader.getAutoprintThreshold()) {
        //noinspection StringConcatenation
        reader.print(Messages.DISPLAY_CANDIDATES.format(candidates.size()));
        reader.flush();

        int c;

        String noOpt = Messages.DISPLAY_CANDIDATES_NO.format();
        String yesOpt = Messages.DISPLAY_CANDIDATES_YES.format();
        char[] allowed = {yesOpt.charAt(0), noOpt.charAt(0)};

        while ((c = reader.readCharacter(allowed)) != -1) {
            String tmp = new String(new char[] {(char) c});

            if (noOpt.startsWith(tmp)) {
                reader.println();
                return;
            }
            else if (yesOpt.startsWith(tmp)) {
                break;
            }
            else {
                reader.beep();
            }
        }
    }

    // copy the values and make them distinct, without otherwise affecting the ordering. Only do it if the sizes differ.
    if (distinct.size() != candidates.size()) {
        Collection<CharSequence> copy = new ArrayList<CharSequence>();

        for (CharSequence next : candidates) {
            if (!copy.contains(next)) {

```

```

        copy.add(next);
    }
}

candidates = copy;
}

reader.println();
reader.printColumns(candidates);
}

/**
 * Returns a root that matches all the {@link String} elements of the specified {@link List},
 * or null if there are no commonalities. For example, if the list contains
 * <i>foobar</i>, <i>foobaz</i>, <i>foobuz</i>, the method will return <i>foob</i>.
 */
private String getUnambiguousCompletions(final List<CharSequence> candidates) {
    if (candidates == null || candidates.isEmpty()) {
        return null;
    }

    // convert to an array for speed
    String[] strings = candidates.toArray(new String[candidates.size()]);

    String first = strings[0];
    StringBuilder candidate = new StringBuilder();

    for (int i = 0; i < first.length(); i++) {
        if (startsWith(first.substring(0, i + 1), strings)) {
            candidate.append(first.charAt(i));
        }
        else {
            break;
        }
    }

    return candidate.toString();
}

/**
 * @return true if all the elements of <i>candidates</i> start with <i>starts</i>
 */
private boolean startsWith(final String starts, final String[] candidates) {
    for (String candidate : candidates) {
        if (!candidate.startsWith(starts)) {
            return false;
        }
    }
}

```

```

        return true;
    }

    private static enum Messages
    {
        DISPLAY_CANDIDATES,
        DISPLAY_CANDIDATES_YES,
        DISPLAY_CANDIDATES_NO;;

        private static final
        ResourceBundle
            bundle =
                ResourceBundle.getBundle(CandidateListCompletionHandler.class.getName(), Locale.getDefault());

        public String format(final Object... args) {
            if (bundle == null)
                return "";
            else
                return String.format(bundle.getString(name()), args);
        }
    }
}
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 */
package jline.console.completer;

import java.util.List;

/**
 * A completer is the mechanism by which tab-completion candidates will be resolved.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface Completer
{
    //
    // FIXME: Check if we can use CharSequece for buffer?
    //

```

```

/**
 * Populates <i>candidates</i> with a list of possible completions for the <i>buffer</i>.
 *
 * The <i>candidates</i> list will not be sorted before being displayed to the user: thus, the
 * complete method should sort the { @link List} before returning.
 *
 * @param buffer    The buffer
 * @param cursor    The current position of the cursor in the <i>buffer</i>
 * @param candidates The { @link List} of candidates to populate
 * @return          The index of the <i>buffer</i> for which the completion will be relative
 */
int complete(String buffer, int cursor, List<CharSequence> candidates);
}
/**
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 */
package jline.console.completer;

import jline.console.ConsoleReader;

import java.io.IOException;
import java.util.List;

/**
 * Handler for dealing with candidates for tab-completion.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface CompletionHandler
{
    boolean complete(ConsoleReader reader, List<CharSequence> candidates, int position) throws IOException;
}
/**
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 */
package jline.console.completer;

```



```

import static jline.internal.Preconditions.checkNotNull;

/**
 * {@link Completer} for {@link Enum} names.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class EnumCompleter
    extends StringsCompleter
{
    public EnumCompleter(Class<? extends Enum> source) {
        checkNotNull(source);

        for (Enum<?> n : source.getEnumConstants()) {
            this.getStrings().add(n.name().toLowerCase());
        }
    }
}
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 */
package jline.console.completer;

import jline.internal.Configuration;

import java.io.File;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A file name completer takes the buffer and issues a list of
 * potential completions.
 *
 * <p/>
 * This completer tries to behave as similar as possible to
 * <i>bash</i>'s file name completion (using GNU readline)
 * with the following exceptions:
 *
 * <p/>
 * <ul>
 * <li>Candidates that are directories will end with "/"</li>
 * <li>Wildcard regular expressions are not evaluated or replaced</li>

```

```

* <li>The "~" character can be used to represent the user's home,
* but it cannot complete to other users' homes, since java does
* not provide any way of determining that easily</li>
* </ul>
*
* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
* @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
* @since 2.3
*/
public class FileNameCompleter
    implements Completer
{
    // TODO: Handle files with spaces in them

    private static final boolean OS_IS_WINDOWS;

    static {
        String os = Configuration.getOsName();
        OS_IS_WINDOWS = os.contains("windows");
    }

    public int complete(String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer can be null
        checkNotNull(candidates);

        if (buffer == null) {
            buffer = "";
        }

        if (OS_IS_WINDOWS) {
            buffer = buffer.replace('/', '\\');
        }

        String translated = buffer;

        File homeDir = getUserHome();

        // Special character: ~ maps to the user's home directory
        if (translated.startsWith("~" + separator())) {
            translated = homeDir.getPath() + translated.substring(1);
        }
        else if (translated.startsWith("~")) {
            translated = homeDir.getParentFile().getAbsolutePath();
        }
        else if (!(translated.startsWith(separator()))) {
            String cwd = getUserDir().getAbsolutePath();
            translated = cwd + separator() + translated;
        }
    }
}

```

```

File file = new File(translated);
final File dir;

if (translated.endsWith(separator())) {
    dir = file;
}
else {
    dir = file.getParentFile();
}

File[] entries = dir == null ? new File[0] : dir.listFiles();

return matchFiles(buffer, translated, entries, candidates);
}

protected String separator() {
    return File.separator;
}

protected File getUserHome() {
    return Configuration.getUserHome();
}

protected File getUserDir() {
    return new File(".");
}

protected int matchFiles(final String buffer, final String translated, final File[] files, final List<CharSequence>
candidates) {
    if (files == null) {
        return -1;
    }

    int matches = 0;

    // first pass: just count the matches
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            matches++;
        }
    }
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            CharSequence name = file.getName() + (matches == 1 && file.isDirectory() ? separator() : " ");
            candidates.add(render(file, name).toString());
        }
    }
}

```

```

        final int index = buffer.lastIndexOf(separator());

        return index + separator().length();
    }

    protected CharSequence render(final File file, final CharSequence name) {
        return name;
    }
}
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 *
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 */
package jline.console.completer;

import java.util.List;

/**
 * Null completer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public final class NullCompleter
    implements Completer
{
    public static final NullCompleter INSTANCE = new NullCompleter();

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        return -1;
    }
}
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 *
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 */
package jline.console.completer;

```

```

import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.SortedSet;
import java.util.TreeSet;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer for a set of strings.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class StringsCompleter
    implements Completer
{
    private final SortedSet<String> strings = new TreeSet<String>();

    public StringsCompleter() {
        // empty
    }

    public StringsCompleter(final Collection<String> strings) {
        checkNotNull(strings);
        getStrings().addAll(strings);
    }

    public StringsCompleter(final String... strings) {
        this(Arrays.asList(strings));
    }

    public Collection<String> getStrings() {
        return strings;
    }

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer could be null
        checkNotNull(candidates);

        if (buffer == null) {
            candidates.addAll(strings);
        }
        else {
            for (String match : strings.tailSet(buffer)) {
                if (!match.startsWith(buffer)) {
                    break;
                }
            }
        }
    }
}

```

```

        candidates.add(match);
    }
}

if (candidates.size() == 1) {
    candidates.set(0, candidates.get(0) + " ");
}

return candidates.isEmpty() ? -1 : 0;
}
}
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#

DISPLAY_CANDIDATES=Display all %d possibilities? (y or n)
DISPLAY_CANDIDATES_YES=y
DISPLAY_CANDIDATES_NO=n
DISPLAY_MORE=--More--

```

## 8.96 jQuery 1.9.1

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## 8.97 json3 3.2.4

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# 8.101 junit 4.11 4.11

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## 8.104 loader.implementation 0.1.1-Helium-SR1

### 8.104.1 Available under license :

```
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-flexible"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java-flexible="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:flexible"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:flexible"/>
  <prefix value="th-java-flexible"/>
  <import module="threadpool">
```



```

    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
</import>
<import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
</import>
<organization>
    <text>Cisco Systems, Inc.</text>
</organization>
<contact>
    <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
    <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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```

</description>
<revision date="2013-12-01">
    <description>
        <text>Initial revision</text>
    </description>
</revision>
<identity name="threadpool-flexible">
    <base name="config:module-type"/>
    <config:provided-service name="th:threadpool"/>
    <config:java-name-prefix java-prefix="FlexibleThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
    <case name="threadpool-flexible">
        <when condition="/config:modules/config:module/config:type = 'threadpool-flexible'"/>
        <leaf name="max-thread-count">
            <type name="uint16"/>
        </leaf>
        <leaf name="minThreadCount">
            <type name="uint16"/>
        </leaf>
        <leaf name="keepAliveMillis">

```

```

    <type name="uint32"/>
  </leaf>
  <container name="threadFactory">
    <uses name="config:service-ref">
      <refine target-node="type">
        <config:required-identity name="th:threadfactory"/>
      </refine>
    </uses>
  </container>
</case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl"/>
  <prefix value="th-java"/>
  <import module="threadpool">
    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovara@cisco.com></text>
  </contact>
  <description>
    <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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</description>

<revision date="2013-04-05">

<description>

<text>Updated to work with new anchors.</text>

</description>

</revision>

<revision date="2013-04-03">

<description>

<text>Initial revision by Anton Tkacik, Tomas Olvecky and

Robert Varga.</text>

</description>

</revision>

<identity name="eventbus">

<base name="config:module-type"/>

<config:provided-service name="th:eventbus"/>

<config:java-name-prefix java-prefix="EventBus"/>

</identity>

<augment target-node="/config:modules/config:module/config:configuration">

<case name="eventbus">

<when condition="/config:modules/config:module/config:type = 'eventbus'"/>

</case>

</augment>

<augment target-node="/config:modules/config:module/config:state">

<case name="eventbus">

<when condition="/config:modules/config:module/config:type = 'eventbus'"/>

<rpcx:rpc-context-instance context-type="event-bus-rpc"/>

</case>

</augment>

<identity name="event-bus-rpc"/>

<identity name="async-eventbus">

<base name="config:module-type"/>

<config:provided-service name="th:eventbus"/>

<config:java-name-prefix java-prefix="AsyncEventBus"/>

</identity>

<augment target-node="/config:modules/config:module/config:configuration">

<case name="async-eventbus">

<when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>

<container name="threadpool">

<uses name="config:service-ref">

<refine target-node="type">

<config:required-identity name="th:threadpool"/>

</refine>

</uses>

</container>

</case>

</augment>

```

<augment target-node="/config:modules/config:module/config:state">
  <case name="async-eventbus">
    <when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
      <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
    </case>
  </augment>
<rpc name="get-dead-events-count">
  <config:java-name-prefix java-prefix="countDeadEvents"/>
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
      </refine>
    </uses>
  </input>
  <output>
    <leaf name="result">
      <type name="uint32"/>
    </leaf>
  </output>
</rpc>
<identity name="threadfactory-naming">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadfactory"/>
  <config:java-name-prefix java-prefix="NamingThreadFactory"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadfactory-naming">
    <when condition="/config:modules/config:module/config:type = 'threadfactory-naming'"/>
      <leaf name="name-prefix">
        <type name="string"/>
      </leaf>
    </case>
  </augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-scheduled"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java-scheduled="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:scheduled"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:scheduled"/>
  <prefix value="th-java-scheduled"/>
  <import module="threadpool">
    <prefix value="th"/>
  <revision-date date="2013-04-09"/>

```

```

</import>
<import module="config">
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
  <text>Robert Varga &lt;rovarga@cisco.com></text>
</contact>
<description>
  <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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```

</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-scheduled">
  <base name="config:module-type"/>
  <config:provided-service name="th:scheduled-threadpool"/>
  <config:java-name-prefix java-prefix="ScheduledThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-scheduled">
    <when condition="/config:modules/config:module/config:type = 'threadpool-scheduled'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <container name="threadFactory">
      <uses name="config:service-ref">
        <refine target-node="type">
          <config:required-identity name="th:threadfactory"/>
        </refine>
      </uses>

```

```

    </container>
  </case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="shutdown-impl"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:shutdown-impl="urn:opendaylight:params:xml:ns:yang:controller:shutdown:impl"
  xmlns:shutdown="urn:opendaylight:params:xml:ns:yang:controller:shutdown"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <namespace uri="urn:opendaylight:params:xml:ns:yang:controller:shutdown:impl"/>
  <prefix value="shutdown-impl"/>
  <import module="shutdown">
    <prefix value="shutdown"/>
    <revision-date date="2013-12-18"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <description>
    <text>This module contains the base YANG definitions for
shutdown implementation.

```

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```

</description>
<revision date="2013-12-18">
  <description>
    <text>Initial revision.</text>
  </description>
</revision>
<identity name="shutdown">
  <base name="config:module-type"/>
  <config:provided-service name="shutdown:shutdown"/>

```

```

</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="shutdown">
    <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
    <leaf name="secret">
      <type name="string"/>
      <default value=""/>
    </leaf>
  </case>
</augment>
<augment target-node="/config:modules/config:module/config:state">
  <case name="shutdown">
    <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
    <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
  </case>
</augment>
<identity name="shutdown-rpc"/>
<rpc name="shutdown">
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
      </refine>
    </uses>
    <leaf name="input-secret">
      <type name="string"/>
    </leaf>
    <leaf name="max-wait-time">
      <type name="uint32"/>
      <description>
        <text>Maximum time in milliseconds before process is forcibly exited. Zero or null cancels this
functionality.</text>
      </description>
    </leaf>
    <leaf name="reason">
      <type name="string"/>
    </leaf>
  </input>
</rpc>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-fixed"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:th-java-fixed="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:fixed"
  xmlns:th="urn:opendaylight:params:xml:ns:yang:controller:threadpool"
  xmlns:config="urn:opendaylight:params:xml:ns:yang:controller:config"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>

```

```

<namespace uri="urn:opendaylight:params:xml:ns:yang:controller:threadpool:impl:fixed"/>
<prefix value="th-java-fixed"/>
<import module="threadpool">
  <prefix value="th"/>
  <revision-date date="2013-04-09"/>
</import>
<import module="config">
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
  <text>Robert Varga &lt;rovara@cisco.com&gt;</text>
</contact>
<description>
  <text>This module contains the base YANG definitions for
thread services pure Java implementation.

```

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```

</description>
<revision date="2013-12-01">
  <description>
    <text>Initial revision</text>
  </description>
</revision>
<identity name="threadpool-fixed">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadpool"/>
  <config:java-name-prefix java-prefix="FixedThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-fixed">
    <when condition="/config:modules/config:module/config:type = 'threadpool-fixed'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <container name="threadFactory">

```



```
<uses name="config:service-ref">
  <refine target-node="type">
    <config:required-identity name="th:threadfactory"/>
  </refine>
</uses>
</container>
</case>
</augment>
</module>
```

## 8.105 Log4j 1.2.12

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## 8.106 Log4j Implemented Over SLF4J 1.7.2

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## 8.107 Logging 1.1

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\*/

```
package org.opendaylight.l2switch.loopremover.topology;
```

```
import com.google.common.base.Preconditions;
```

```
import edu.uci.ics.jung.algorithms.shortestpath.PrimMinimumSpanningTree;
```

```
import edu.uci.ics.jung.graph.DelegateTree;
```

```
import edu.uci.ics.jung.graph.Graph;
```

```
import edu.uci.ics.jung.graph.SparseMultigraph;
```

```
import edu.uci.ics.jung.graph.util.EdgeType;
```

```
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.NodeId;
```

```

import
org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology.
Link;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

/**
 * Implementation of NetworkGraphService { @link
org.opendaylight.l2switch.loopremover.topology.NetworkGraphService }.
 * It uses Jung graph library internally to maintain a graph and optimum way to return shortest path using
 * Dijkstra algorithm.
 */
public class NetworkGraphImpl implements NetworkGraphService {

    private static final Logger _logger = LoggerFactory.getLogger(NetworkGraphImpl.class);

    Graph<NodeId, Link> networkGraph = null;
    Set<String> linkAdded = new HashSet<>();

    //Enable following lines when shortest path functionality is required.
    //DijkstraShortestPath<NodeId, Link> shortestPath = null;

    /**
     * Adds links to existing graph or creates new directed graph with given links if graph was not initialized.
     *
     * @param links The links to add.
     */
    @Override
    public synchronized void addLinks(List<Link> links) {
        if(links == null || links.isEmpty()) {
            _logger.info("In addLinks: No link added as links is null or empty.");
            return;
        }

        if(networkGraph == null) {
            networkGraph = new SparseMultigraph<>();
        }

        for(Link link : links) {
            if(linkAlreadyAdded(link)) {
                continue;
            }
        }
    }

```

```

    nodeId sourceNodeId = link.getSource().getSourceNodeId();
    nodeId destinationNodeId = link.getDestination().getDestNodeId();
    networkGraph.addVertex(sourceNodeId);
    networkGraph.addVertex(destinationNodeId);
    networkGraph.addEdge(link, sourceNodeId, destinationNodeId, EdgeType.UNDIRECTED);
}

/*if(shortestPath == null) {
    shortestPath = new DijkstraShortestPath<>(networkGraph);
} else {
    shortestPath.reset();
}*/
}

private boolean linkAlreadyAdded(Link link) {
    String linkAddedKey = null;
    if(link.getDestination().getDestTp().hashCode() > link.getSource().getSourceTp().hashCode()) {
        linkAddedKey = link.getSource().getSourceTp().getValue() + link.getDestination().getDestTp().getValue();
    } else {
        linkAddedKey = link.getDestination().getDestTp().getValue() + link.getSource().getSourceTp().getValue();
    }
    if(linkAdded.contains(linkAddedKey)) {
        return true;
    } else {
        linkAdded.add(linkAddedKey);
        return false;
    }
}

/**
 * Removes links from existing graph.
 *
 * @param links The links to remove.
 */
@Override
public synchronized void removeLinks(List<Link> links) {
    Preconditions.checkNotNull(networkGraph, "Graph is not initialized, add links first.");

    if(links == null || links.isEmpty()) {
        _logger.info("In removeLinks: No link removed as links is null or empty.");
        return;
    }

    for(Link link : links) {
        networkGraph.removeEdge(link);
    }
    /*if(shortestPath == null) {
        shortestPath = new DijkstraShortestPath<>(networkGraph);
    }
}

```

```

    } else {
        shortestPath.reset();
    }*/
}

/**
 * returns a path between 2 nodes. Uses Dijkstra's algorithm to return shortest path.
 * @param sourceNodeId
 * @param destinationNodeId
 * @return
 */
/**
//@Override
/**public synchronized List<Link> getPath(NodeId sourceNodeId, NodeId destinationNodeId) {
    Preconditions.checkNotNull(shortestPath, "Graph is not initialized, add links first.");

    if(sourceNodeId == null || destinationNodeId == null) {
        _logger.info("In getPath: returning null, as sourceNodeId or destinationNodeId is null.");
        return null;
    }

    return shortestPath.getPath(sourceNodeId, destinationNodeId);
}*/

/**
 * Clears the prebuilt graph, in case same service instance is required to process a new graph.
 */
@Override
public synchronized void clear() {
    networkGraph = null;
    //shortestPath = null;
}

/**
 * Forms MST(minimum spanning tree) from network graph and returns links that are not in MST.
 *
 * @return The links in the MST (minimum spanning tree)
 */
@Override
public synchronized List<Link> getLinksInMst() {
    List<Link> linksInMst = new ArrayList<>();
    if(networkGraph != null) {
        PrimMinimumSpanningTree<NodeId, Link> networkMst = new
PrimMinimumSpanningTree<>(DelegateTree.<NodeId, Link>getFactory());
        Graph<NodeId, Link> mstGraph = networkMst.transform(networkGraph);
        Collection<Link> mstLinks = mstGraph.getEdges();
        linksInMst.addAll(mstLinks);
    }
}

```



```

    return linksInMst;
}

/**
 * Get all the links in the network.
 *
 * @return The links in the network.
 */
@Override
public List<Link> getAllLinks() {
    List<Link> allLinks = new ArrayList<>();
    if(networkGraph != null) {
        allLinks.addAll(networkGraph.getEdges());
    }
    return allLinks;
}
}

```

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## 8.112 main-impl 0.1.1-Helium-SR1

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```
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 */
package org.opendaylight.l2switch.flow;

import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import org.opendaylight.l2switch.util.InstanceIdentifierUtils;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.Uri;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.yang.types.rev100924.MacAddress;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.action.OutputActionCaseBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.action.output.action._case.OutputActi
onBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.list.Action;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.list.ActionBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.AddFlowInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.AddFlowOutput;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowTableRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowCookie;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowModFlags;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.InstructionsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Match;
```

```

import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.MatchBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.ApplyActionsCaseBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.apply.actions._case.ApplyActions;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.apply.actions._case.ApplyActionsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.list.Instruction;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.list.InstructionBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.ethernet.match.fields.EthernetDestinationBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.ethernet.match.fields.EthernetSourceBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.match.EthernetMatch;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.match.EthernetMatchBuilder;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import java.math.BigInteger;
import java.util.concurrent.Future;
import java.util.concurrent.atomic.AtomicLong;

/**
 * Implementation of FlowWriterService{ @link
org.opendaylight.controller.sample.l2switch.md.flow.FlowWriterService},
 * that builds required flow and writes to configuration data store using provided DataBrokerService
 * { @link org.opendaylight.controller.sal.binding.api.data.DataBrokerService }
 */
public class FlowWriterServiceImpl implements FlowWriterService {
    private static final Logger _logger = LoggerFactory.getLogger(FlowWriterServiceImpl.class);
    private SalFlowService salFlowService;
    private short flowTableId;
    private int flowPriority;
    private int flowIdleTimeout;
    private int flowHardTimeout;

```

```

private AtomicLong flowIdInc = new AtomicLong();
private AtomicLong flowCookieInc = new AtomicLong(0x2a00000000000000L);
private final Integer DEFAULT_TABLE_ID = new Integer(0);
private final Integer DEFAULT_PRIORITY = new Integer(10);
private final Integer DEFAULT_HARD_TIMEOUT = new Integer(3600);
private final Integer DEFAULT_IDLE_TIMEOUT = new Integer(1800);

public FlowWriterServiceImpl(SalFlowService salFlowService) {
    Preconditions.checkNotNull(salFlowService, "salFlowService should not be null.");
    this.salFlowService = salFlowService;
}

public void setFlowTableId(short flowTableId) {
    this.flowTableId = flowTableId;
}

public void setFlowPriority(int flowPriority) {
    this.flowPriority = flowPriority;
}

public void setFlowIdleTimeout(int flowIdleTimeout) {
    this.flowIdleTimeout = flowIdleTimeout;
}

public void setFlowHardTimeout(int flowHardTimeout) {
    this.flowHardTimeout = flowHardTimeout;
}

/**
 * Writes a flow that forwards packets to destPort if destination mac in packet is destMac and
 * source Mac in packet is sourceMac. If sourceMac is null then flow would not set any source mac,
 * resulting in all packets with destMac being forwarded to destPort.
 *
 * @param sourceMac
 * @param destMac
 * @param destNodeConnectorRef
 */
@Override
public void addMacToMacFlow(MacAddress sourceMac, MacAddress destMac, NodeConnectorRef
destNodeConnectorRef) {

    Preconditions.checkNotNull(destMac, "Destination mac address should not be null.");
    Preconditions.checkNotNull(destNodeConnectorRef, "Destination port should not be null.");

    // do not add flow if both macs are same.
    if(sourceMac != null && destMac.equals(sourceMac)) {
        _logger.info("In addMacToMacFlow: No flows added. Source and Destination mac are same.");
    }
}

```

```

    return;
}

// get flow table key
TableKey flowTableKey = new TableKey((short) flowTableId);

//build a flow path based on node connector to program flow
InstanceIdentifier<Flow> flowPath = buildFlowPath(destNodeConnectorRef, flowTableKey);

// build a flow that target given mac id
Flow flowBody = createMacToMacFlow(flowTableKey.getId(), flowPriority, sourceMac, destMac,
destNodeConnectorRef);

// commit the flow in config data
writeFlowToConfigData(flowPath, flowBody);
}

/**
 * Writes mac-to-mac flow on all ports that are in the path between given source and destination ports.
 * It uses path provided by NetworkGraphService
 * { @link org.opendaylight.controller.sample.l2switch.md.topology.NetworkGraphService } to find a links
 * { @link
org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology.
Link }
 * between given ports. And then writes appropriate flow on each port that is covered in that path.
 *
 * @param sourceMac
 * @param sourceNodeConnectorRef
 * @param destMac
 * @param destNodeConnectorRef
 */
@Override
public void addBidirectionalMacToMacFlows(MacAddress sourceMac,
NodeConnectorRef sourceNodeConnectorRef,
MacAddress destMac,
NodeConnectorRef destNodeConnectorRef) {
    Preconditions.checkNotNull(sourceMac, "Source mac address should not be null.");
    Preconditions.checkNotNull(sourceNodeConnectorRef, "Source port should not be null.");
    Preconditions.checkNotNull(destMac, "Destination mac address should not be null.");
    Preconditions.checkNotNull(destNodeConnectorRef, "Destination port should not be null.");

    if(sourceNodeConnectorRef.equals(destNodeConnectorRef)) {
        _logger.info("In addMacToMacFlowsUsingShortestPath: No flows added. Source and Destination ports are
same.");
        return;
    }
}

```



```

// add destMac-To-sourceMac flow on source port
addMacToMacFlow(destMac, sourceMac, sourceNodeConnectorRef);

// add sourceMac-To-destMac flow on destination port
addMacToMacFlow(sourceMac, destMac, destNodeConnectorRef);
}

/**
 * @param nodeConnectorRef
 * @return
 */
private InstanceIdentifier<Flow> buildFlowPath(NodeConnectorRef nodeConnectorRef, TableKey flowTableKey)
{

// generate unique flow key
FlowId flowId = new FlowId(String.valueOf(flowIdInc.getAndIncrement()));
FlowKey flowKey = new FlowKey(flowId);

return InstanceIdentifierUtils.generateFlowInstanceIdentifier(nodeConnectorRef, flowTableKey, flowKey);
}

/**
 * @param tableId
 * @param priority
 * @param sourceMac
 * @param destMac
 * @param destPort
 * @return { @link
org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowBuilder}
 * builds flow that forwards all packets with destMac to given port
 */
private Flow createMacToMacFlow(Short tableId, int priority,
                                MacAddress sourceMac, MacAddress destMac, NodeConnectorRef destPort) {

// start building flow
FlowBuilder macToMacFlow = new FlowBuilder() //
    .setTableId(tableId) //
    .setFlowName("mac2mac");

// use its own hash code for id.
macToMacFlow.setId(new FlowId(Long.toString(macToMacFlow.hashCode())));

// create a match that has mac to mac ethernet match
EthernetMatchBuilder ethernetMatchBuilder = new EthernetMatchBuilder() //
    .setEthernetDestination(new EthernetDestinationBuilder() //
        .setAddress(destMac) //
        .build());
// set source in the match only if present

```

```

if(sourceMac != null) {
    ethernetMatchBuilder.setEthernetSource(new EthernetSourceBuilder()
        .setAddress(sourceMac)
        .build());
}
EthernetMatch ethernetMatch = ethernetMatchBuilder.build();
Match match = new MatchBuilder()
    .setEthernetMatch(ethernetMatch)
    .build();

Uri destPortUri = destPort.getValue().firstKeyOf(NodeConnector.class, NodeConnectorKey.class).getId();

Action outputToControllerAction = new ActionBuilder() //
    .setOrder(0)
    .setAction(new OutputActionCaseBuilder() //
        .setOutputAction(new OutputActionBuilder() //
            .setMaxLength(new Integer(0xffff)) //
            .setOutputNodeConnector(destPortUri) //
            .build()) //
        .build()) //
    .build();

// Create an Apply Action
ApplyActions applyActions = new
ApplyActionsBuilder().setAction(ImmutableList.of(outputToControllerAction))
    .build();

// Wrap our Apply Action in an Instruction
Instruction applyActionsInstruction = new InstructionBuilder() //
    .setOrder(0)
    .setInstruction(new ApplyActionsCaseBuilder()//
        .setApplyActions(applyActions) //
        .build()) //
    .build();

// Put our Instruction in a list of Instructions
macToMacFlow
    .setMatch(match) //
    .setInstructions(new InstructionsBuilder() //
        .setInstruction(ImmutableList.of(applyActionsInstruction)) //
        .build()) //
    .setPriority(priority) //
    .setBufferId(0L) //
    .setHardTimeout(flowHardTimeout) //
    .setIdleTimeout(flowIdleTimeout) //
    .setCookie(new FlowCookie(BigInteger.valueOf(flowCookieInc.getAndIncrement())))
    .setFlags(new FlowModFlags(false, false, false, false, false));

```

```

return macToMacFlow.build();
}

/**
 * Starts and commits data change transaction which
 * modifies provided flow path with supplied body.
 *
 * @param flowPath
 * @param flow
 * @return transaction commit
 */
private Future<RpcResult<AddFlowOutput>> writeFlowToConfigData(InstanceIdentifier<Flow> flowPath,
        Flow flow) {
    final InstanceIdentifier<Table> tableInstanceId = flowPath.<Table>firstIdentifierOf(Table.class);
    final InstanceIdentifier<Node> nodeInstanceId = flowPath.<Node>firstIdentifierOf(Node.class);
    final AddFlowInputBuilder builder = new AddFlowInputBuilder(flow);
    builder.setNode(new NodeRef(nodeInstanceId));
    builder.setFlowRef(new FlowRef(flowPath));
    builder.setFlowTable(new FlowTableRef(tableInstanceId));
    builder.setTransactionUri(new Uri(flow.getId().getValue()));
    return salFlowService.addFlow(builder.build());
}
}

```

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Maven Wagon Lightweight HTTP Provider

## 8.149 model-flow-base 1.1.1-Helium-SR1

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# way or the other to the Monit project over the years

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Sbastien Debrard  
Tatsuya Nonogaki  
Thomas "Leppo" Oppel  
Thomas Lohmueller  
Will Bryant

## 8.155 net.sf.jung2 2.0.1

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# 8.160 ng-grid 2.0.7

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# ng-grid : An Angular DataGrid

[![Build Status](https://travis-ci.org/angular-ui/ng-grid.png)](https://travis-ci.org/angular-ui/ng-grid)

\_\_Contributors:\_\_

ng-grid Team:

- \* [Tim Sweet](http://ornerydevelopment.blogspot.com/)
- \* [Jonathon Ricaurte](https://github.com/jonricaurte)
- \* [Brian Hann](https://github.com/c0bra)

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# 8.161 object-cache-api 0.6.3-Helium-SR1

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# 8.166 openflowjava-extension-nicira 0.0.4- Helium-SR1

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## 8.169 openflowplugin-api 0.0.4-Helium-SR1

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# 8.170 openflowplugin-controller-config 0.0.4-Helium-SR1

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## 8.171 openflowplugin-extension-api 0.0.4- Helium-SR1

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\*/

```
package org.ops4j.pax.exam.options.extra;
```

```
import static org.ops4j.lang.NullArgumentException.validateNotEmpty;
```

```
/**
```

```
* { @link RepositoryOption } implementation.
```

```
*
```

```
* @author Toni Menzel (tonit)
```

```
* @author Alin Dreghiciu (adreghiciu@gmail.com)
```

```
* @since 0.3.0, December 19, 2008
```

```
*/
```

```
public class RepositoryOptionImpl implements RepositoryOption {
```

```
/**
```

```
* Repository url (cannot be null or empty).
```

```
*/
```

```
private final String repositoryUrl;
```

```
/**
```

```

* Marks repository as allowing snapshots.
*/
private boolean allowSnapshots;
/**
* MARKs repository as allowing releases.
*/
private boolean allowReleases;

/**
* Defines repository identifier to be referenced in Maven settings.
*/
private String id;

/**
* Constructor.
*
* @param repositoryUrl
*     repository url (cannot be null or empty)
*
* @throws IllegalArgumentException
*     - If repository url is null or empty
*/
public RepositoryOptionImpl(final String repositoryUrl) {
    validateNotEmpty(repositoryUrl, "Repository URL");

    this.repositoryUrl = repositoryUrl;
    allowSnapshots = false;
    allowReleases = true;
}

public RepositoryOptionImpl allowSnapshots() {
    allowSnapshots = true;
    return this;
}

public RepositoryOptionImpl disableReleases() {
    allowReleases = false;
    return this;
}

public RepositoryOption id(String _id) {
    this.id = _id;
    return this;
}

/**
* Returns the full repository url.
*

```

```

* @return the full repository as given plus eventual snapshot/release tags (cannot be null or
*     empty)
*
* @throws IllegalStateException
*     - if both snapshots and releases are not allowed
*/
public String getRepository() {
    if (!allowReleases && !allowSnapshots) {
        throw new IllegalStateException(
            "Does not make sense to disallow both releases and snapshots.");
    }
    final StringBuilder url = new StringBuilder();
    url.append(this.repositoryUrl);
    if (allowSnapshots) {
        url.append("@snapshots");
    }
    if (!allowReleases) {
        url.append("@noreleases");
    }
    if (id != null) {
        url.append("@id=");
        url.append(id);
    }
    return url.toString();
}

/**
 * {@inheritDoc}
 */
@Override
public String toString() {
    final StringBuilder sb = new StringBuilder();
    sb.append("RepositoryOptionImpl");
    sb.append("{url=").append(getRepository());
    sb.append('}');
    return sb.toString();
}

public String getValue() {
    return getRepository();
}
}

```

## 8.186 OPS4J Pax Exam - UI Low Level SPI

### 3.0.0

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```
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 */
package org.ops4j.pax.exam.spi.intern;

import static org.ops4j.pax.exam.Constants.PROBE_EXECUTABLE;
import static org.ops4j.pax.tinybundles.core.TinyBundles.bundle;
import static org.ops4j.pax.tinybundles.core.TinyBundles.withClassicBuilder;

import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import java.lang.reflect.Method;
import java.net.URISyntaxException;
import java.net.URL;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Properties;
import java.util.Set;

import org.ops4j.pax.exam.TestAddress;
import org.ops4j.pax.exam.TestContainerException;
import org.ops4j.pax.exam.TestInstantiationInstruction;
import org.ops4j.pax.exam.TestProbeBuilder;
import org.ops4j.pax.exam.TestProbeProvider;
import org.ops4j.pax.exam.spi.ContentCollector;
import org.ops4j.pax.tinybundles.core.TinyBundle;
import org.ops4j.store.Store;
import org.osgi.framework.Constants;
```



```

/**
 * Default implementation allows you to dynamically create a probe from current classpath.
 *
 * @author Toni Menzel
 * @since Dec 2, 2009
 */
public class TestProbeBuilderImpl implements TestProbeBuilder {

    private static final String DEFAULT_PROBE_METHOD_NAME = "probe";

    private final Map<TestAddress, TestInstantiationInstruction> probeCalls = new LinkedHashMap<TestAddress,
TestInstantiationInstruction>();
    private final List<Class<?>> anchors;
    private final Properties extraProperties;
    private final Set<String> ignorePackages = new HashSet<String>();
    private final Store<InputStream> store;

    public TestProbeBuilderImpl(Store<InputStream> store) throws IOException {
        anchors = new ArrayList<Class<?>>();
        this.store = store;
        extraProperties = new Properties();
    }

    public TestAddress addTest(Class<?> clazz, String methodName, Object... args) {
        TestAddress address = new DefaultTestAddress(clazz.getName() + "." + methodName, args);
        probeCalls.put(address,
            new TestInstantiationInstruction(clazz.getName() + ";" + methodName));
        addAnchor(clazz);
        return address;
    }

    public TestAddress addTest(Class<?> clazz, Object... args) {
        return addTest(clazz, DEFAULT_PROBE_METHOD_NAME, args);
    }

    public List<TestAddress> addTests(Class<?> clazz, Method... methods) {
        List<TestAddress> list = new ArrayList<TestAddress>();
        for (Method method : methods) {
            list.add(addTest(clazz, method.getName()));
        }
        return list;
    }

    public TestProbeBuilder addAnchor(Class<?> clazz) {
        anchors.add(clazz);
        return this;
    }
}

```

```

public TestProbeBuilder setHeader(String key, String value) {
    extraProperties.put(key, value);
    return this;
}

// when your testclass contains clutter in non-test methods,
// bnd generates too many imports.
// This makes packages optional.
public TestProbeBuilder ignorePackageOf(Class<?>... classes) {
    for (Class<?> c : classes) {
        ignorePackages.add(c.getPackage().getName());
    }

    return this;
}

public TestProbeProvider build() {
    if (anchors.size() == 0) {
        throw new TestContainerException("No tests added to setup!");
    }

    constructProbeTag(extraProperties);
    try {
        TinyBundle bundle = prepareProbeBundle(createExtraIgnores());
        return new DefaultTestProbeProvider(getTests(), store, store.store(bundle
            .build(withClassicBuilder())));
    }
    catch (IOException e) {
        throw new TestContainerException(e);
    }
}

private TinyBundle prepareProbeBundle(Properties p) throws IOException {
    TinyBundle bundle = bundle(store).set(Constants.DYNAMICIMPORT_PACKAGE, "*");

    bundle.set(Constants.BUNDLE_SYMBOLICNAME, "");
    bundle.set(Constants.BUNDLE_MANIFESTVERSION, "2");
    for (Object key : extraProperties.keySet()) {
        bundle.set((String) key, (String) extraProperties.get(key));
    }
    for (Object key : p.keySet()) {
        bundle.set((String) key, (String) p.get(key));
    }

    Map<String, URL> map = collectResources();
    for (String item : map.keySet()) {

```

```

        bundle.add(item, map.get(item));
    }
    return bundle;
}

private Map<String, URL> collectResources() throws IOException {
    ContentCollector collector = selectCollector();
    Map<String, URL> map = new HashMap<String, URL>();
    collector.collect(map);
    return map;
}

static String convertClassToPath(Class<?> c) {
    return c.getName().replace(".", File.separator) + ".class";
}

/**
 * @param clazz
 *      to find the root classes folder for.
 *
 * @return A File instance being the exact folder on disk or null, if it hasn't been found.
 *
 * @throws java.io.IOException
 *      if a problem occurs (method crawls folders on disk..)
 */
public static File findClassesFolder(Class<?> clazz) throws IOException {
    ClassLoader classLoader = clazz.getClassLoader();
    String clazzPath = convertClassToPath(clazz);
    URL url = classLoader.getResource(clazzPath);
    if (url == null || !"file".equals(url.getProtocol())) {
        return null;
    }
    else {
        try {
            File file = new File(url.toURI());
            String fullPath = file.getCanonicalPath();
            String parentDirPath = fullPath
                .substring(0, fullPath.length() - clazzPath.length());
            return new File(parentDirPath);
        }
        catch (URISyntaxException e) {
            // this should not happen as the uri was obtained from getResource
            throw new TestContainerException(e);
        }
    }
}

private ContentCollector selectCollector() throws IOException {

```

```

File root = findClassesFolder(anchors.get(0));

if (root != null) {
    return new CompositeCollector(new CollectFromBase(root), new CollectFromItems(anchors));
}
else {
    return new CollectFromItems(anchors);
}
}

public Set<TestAddress> getTests() {
    return probeCalls.keySet();
}

private Properties createExtraIgnores() {
    Properties properties = new Properties();
    StringBuilder sb = new StringBuilder();
    for (String p : ignorePackages) {
        if (sb.length() > 0) {
            sb.append(",");
        }
        sb.append(p);
    }
    properties.put("Ignore-Package", sb.toString());
    return properties;
}

private void constructProbeTag(Properties p) {
    // construct out of added Tests
    StringBuilder sbKeyChain = new StringBuilder();

    for (TestAddress address : probeCalls.keySet()) {
        sbKeyChain.append(address.identifier());
        sbKeyChain.append(",");
        p.put(address.identifier(), probeCalls.get(address).toString());
    }
    p.put(PROBE_EXECUTABLE, sbKeyChain.toString());
}
}
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 *
 */

```

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\*/

```
package org.ops4j.pax.exam.spi.intern;
```

```
import java.io.IOException;  
import java.io.OutputStream;  
import java.util.HashSet;  
import java.util.Set;  
import java.util.jar.JarOutputStream;  
import java.util.jar.Manifest;  
import java.util.zip.ZipEntry;
```

```
/**
```

```
* This is a more convenient JarOutputStream that imits any writing of duplicate entries. If someone  
* tries to do so, it just does not write anything. Be aware that this could be a source of trouble  
* - but it simplifies merging jars with first come first serve policy.
```

```
* <p/>
```

```
* Implementation note: some silly class init starvation prevents constructor initialization of  
* entrynames..
```

```
*
```

```
* @author Toni Menzel (tonit)
```

```
* @since May 29, 2008
```

```
*/
```

```
public class DuplicateAwareJarOutputStream extends JarOutputStream {
```

```
    private Set<String> entrynames;  
    private boolean writable;
```

```
    public DuplicateAwareJarOutputStream(OutputStream outputStream, Manifest manifest)  
        throws IOException {  
        super(outputStream, manifest);  
    }
```

```
    public DuplicateAwareJarOutputStream(OutputStream outputStream) throws IOException {  
        super(outputStream);  
    }
```

```
    public void write(int i) throws IOException {  
        if (writable) {  
            super.write(i);  
        }  
    }
```

```

public synchronized void write(byte[] bytes, int i, int i1) throws IOException {
    if (writable) {
        super.write(bytes, i, i1);
    }
}

public void write(byte[] bytes) throws IOException {
    if (writable) {
        super.write(bytes);
    }
}

public void putNextEntry(ZipEntry zipEntry) throws IOException {
    if (entrynames == null) {
        entrynames = new HashSet<String>();
    }

    if (entrynames.add(zipEntry.getName())) {
        super.putNextEntry(zipEntry);
        writable = true;
    }
    else {
        writable = false;
    }
}
}
/*
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 */
package org.ops4j.pax.exam.spi.war;

import java.lang.reflect.Method;
import java.net.URI;
import java.util.HashMap;

```

```

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

import org.ops4j.pax.exam.TestAddress;
import org.ops4j.pax.exam.TestInstantiationInstruction;
import org.ops4j.pax.exam.TestProbeBuilder;
import org.ops4j.pax.exam.TestProbeProvider;
import org.ops4j.pax.exam.options.WarProbeOption;
import org.ops4j.pax.exam.spi.intern.DefaultTestAddress;

/**
 * Builds a WAR probe.
 *
 * @author Harald Wellmann
 *
 */
public class WarTestProbeBuilderImpl implements TestProbeBuilder {

    private WarProbeOption option;
    private final Map<TestAddress, TestInstantiationInstruction> probeCalls = new HashMap<TestAddress,
TestInstantiationInstruction>();

    public WarTestProbeBuilderImpl() {
        this(new WarProbeOption().classPathDefaultExcludes());
    }

    public WarTestProbeBuilderImpl(WarProbeOption option) {
        this.option = option;
    }

    @Override
    public TestAddress addTest(Class<?> clazz, String methodName, Object... args) {
        TestAddress address = new DefaultTestAddress(clazz.getSimpleName() + "." + methodName, args);
        probeCalls.put(address,
            new TestInstantiationInstruction(clazz.getName() + ";" + methodName));
        return address;
    }

    @Override
    public TestAddress addTest(Class<?> clazz, Object... args) {
        throw new UnsupportedOperationException();
    }

    @Override
    public List<TestAddress> addTests(Class<?> clazz, Method... m) {
        throw new UnsupportedOperationException();
    }
}

```

```

@Override
public TestProbeBuilder setHeader(String key, String value) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeBuilder ignorePackageOf(Class<?>... classes) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeProvider build() {
    WarBuilder warBuilder = new WarBuilder(option);
    URI warUri = warBuilder.buildWar();
    return new WarTestProbeProvider(warUri, getTests());
}

public Set<TestAddress> getTests() {
    return probeCalls.keySet();
}
}

```

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## 8.188 OPS4J Pax Exam Driver JUnit4 3.5.0

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 */
package org.ops4j.pax.swissbox.framework;

import java.io.Serializable;
import java.util.Map;

/**
 * Default implementation of {@link RemoteServiceReference}.
 */
public final class RemoteServiceReferenceImpl implements RemoteServiceReference,
    Serializable
{

    private static final long serialVersionUID = -8634572885337058082L;
    private final Map<String, Object> values;
    private final String serviceFilter;

    RemoteServiceReferenceImpl( Map<String, Object> values, String serviceFilter )
    {
        this.values = values;
        this.serviceFilter = serviceFilter;
    }

    public Map<String, Object> getProperties()
    {
        return values;
    }

    public String getServiceFilter()
    {
        return serviceFilter;
    }
}
```



```

    }
}
/*
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 */
package org.ops4j.pax.swissbox.framework;

import java.io.ByteArrayInputStream;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.net.URL;
import java.rmi.AccessException;
import java.rmi.AlreadyBoundException;
import java.rmi.NotBoundException;
import java.rmi.Remote;
import java.rmi.RemoteException;
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.rmi.server.UnicastRemoteObject;
import java.util.HashMap;
import java.util.Map;
import java.util.ServiceLoader;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.logging.Logger;

import org.ops4j.pax.swissbox.tracker.ServiceLookup;
import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;
import org.osgi.framework.BundleException;
import org.osgi.framework.Constants;
import org.osgi.framework.FrameworkEvent;
import org.osgi.framework.FrameworkListener;
import org.osgi.framework.InvalidSyntaxException;

```

```

import org.osgi.framework.ServiceReference;
import org.osgi.framework.launch.Framework;
import org.osgi.framework.launch.FrameworkFactory;
import org.osgi.service.startlevel.StartLevel;
import org.osgi.util.tracker.ServiceTracker;

/**
 * Implements the { @link RemoteFramework } interface by instantiating a local { @link Framework },
 * exporting it via an RMI registry and delegating all remote calls to the local framework.
 *
 * @author Harald Wellmann
 */
public class RemoteFrameworkImpl implements RemoteFramework
{

    private static Logger LOG = Logger.getLogger( RemoteFrameworkImpl.class.getName() );

    private Framework framework;
    private Registry registry;
    private String name;

    public RemoteFrameworkImpl( Map<String, String> frameworkProperties ) throws RemoteException,
        AlreadyBoundException, BundleException
    {
        FrameworkFactory frameworkFactory = findFrameworkFactory();
        this.framework = frameworkFactory.newFramework( frameworkProperties );

        export();
    }

    private void export() throws RemoteException, AccessException
    {
        String port = System.getProperty( RMI_PORT_KEY, "1099" );
        name = System.getProperty( RMI_NAME_KEY );
        registry = LocateRegistry.getRegistry( Integer.parseInt( port ) );
        URL location1 = getClass().getProtectionDomain().getCodeSource().getLocation();
        URL location2 = Bundle.class.getProtectionDomain().getCodeSource().getLocation();
        URL location3 = ServiceLookup.class.getProtectionDomain().getCodeSource().getLocation();
        System.setProperty( "java.rmi.server.codebase", location1 + " " + location2 + " "
            + location3 );
        Remote remote = UnicastRemoteObject.exportObject( this, 0 );
        registry.rebind( name, remote );
    }

    public void init() throws RemoteException, BundleException
    {
        framework.init();
    }
}

```

```

public void start() throws RemoteException, BundleException
{
    framework.start();
}

public void stop() throws RemoteException, BundleException
{
    framework.stop();
    try
    {
        registry.unbind( name );
    }
    catch ( NotBoundException exc )
    {
        throw new IllegalStateException( exc );
    }
    UnicastRemoteObject.unexportObject( this, true );
}

public long installBundle( String bundleUrl ) throws RemoteException, BundleException
{
    Bundle bundle = framework.getBundleContext().installBundle( bundleUrl );
    return bundle.getBundleId();
}

public long installBundle( String bundleUrl, boolean start, int startLevel )
    throws RemoteException, BundleException
{
    BundleContext bundleContext = framework.getBundleContext();
    Bundle bundle = bundleContext.installBundle( bundleUrl );
    setupBundle( start, startLevel, bundleContext, bundle );
    return bundle.getBundleId();
}

public long installBundle( String bundleLocation, byte[] bundleData, boolean start,
    int startLevel ) throws RemoteException, BundleException
{
    BundleContext bundleContext = framework.getBundleContext();
    Bundle bundle =
        bundleContext.installBundle( bundleLocation, new ByteArrayInputStream( bundleData ) );
    setupBundle( start, startLevel, bundleContext, bundle );
    return bundle.getBundleId();
}

private static void setupBundle( boolean start, int startLevel, BundleContext bundleContext,
    Bundle bundle ) throws BundleException
{

```

```

StartLevel sl = ServiceLookup.getService( bundleContext, StartLevel.class );
sl.setBundleStartLevel( bundle, startLevel );

if( start )
{
    bundle.start();
}
}

public long installBundle( String bundleLocation, byte[] bundleData ) throws RemoteException,
    BundleException
{
    Bundle bundle =
        framework.getBundleContext().installBundle( bundleLocation,
            new ByteArrayInputStream( bundleData ) );
    return bundle.getBundleId();
}

public void startBundle( long bundleId ) throws RemoteException, BundleException
{
    framework.getBundleContext().getBundle( bundleId ).start();
}

public void stopBundle( long bundleId ) throws RemoteException, BundleException
{
    framework.getBundleContext().getBundle( bundleId ).stop();
}

public void setBundleStartLevel( long bundleId, int startLevel ) throws RemoteException,
    BundleException
{
    BundleContext bc = framework.getBundleContext();
    StartLevel sl = ServiceLookup.getService( bc, StartLevel.class );
    Bundle bundle = bc.getBundle( bundleId );
    sl.setBundleStartLevel( bundle, startLevel );
}

public void uninstallBundle( long id ) throws RemoteException, BundleException
{
    framework.getBundleContext().getBundle( id ).uninstall();
}

public FrameworkFactory findFrameworkFactory()
{
    ServiceLoader<FrameworkFactory> loader = ServiceLoader.load( FrameworkFactory.class );
    FrameworkFactory factory = loader.iterator().next();
    return factory;
}

```

```

private static Map<String, String> buildFrameworkProperties( String[] args )
{
    Map<String, String> props = new HashMap<String, String>();
    for( String arg : args )
    {
        if( arg.startsWith( "-F" ) )
        {
            int eq = arg.indexOf( "=" );
            if( eq == -1 )
            {
                String key = arg.substring( 2 );
                props.put( key, null );
            }
            else
            {
                String key = arg.substring( 2, eq );
                String value = arg.substring( eq + 1 );
                props.put( key, value );
            }
        }
        else
        {
            LOG.warning( "ignoring unknown argument " + arg );
        }
    }
    return props;
}

public void callService( String filter, String methodName ) throws RemoteException,
    BundleException
{
    try
    {
        LOG.fine( "acquiring service " + filter );
        BundleContext bc = framework.getBundleContext();
        Object service = ServiceLookup.getServiceByFilter( bc, filter );
        Class<? extends Object> klass = service.getClass();
        Method method;
        try
        {
            method = klass.getMethod( methodName, Object[].class );
            LOG.fine( "calling service method " + method );
            method.invoke( service, (Object) new Object[]{} );
        }
        catch ( NoSuchMethodException e )
        {
            method = klass.getMethod( methodName );
        }
    }
}

```

```

        LOG.fine( "calling service method " + method );
        method.invoke( service );
    }
}
catch ( SecurityException exc )
{
    throw new IllegalStateException( exc );
}
catch ( NoSuchMethodException exc )
{
    throw new IllegalStateException( exc );
}
catch ( IllegalArgumentException exc )
{
    throw new IllegalStateException( exc );
}
catch ( IllegalAccessException exc )
{
    throw new IllegalStateException( exc );
}
catch ( InvocationTargetException exc )
{
    throw new IllegalStateException( exc );
}
}

public void setFrameworkStartLevel( int startLevel ) throws RemoteException
{
    setFrameworkStartLevel( startLevel, 0 );
}

public boolean setFrameworkStartLevel( final int startLevel, long timeout )
    throws RemoteException
{
    BundleContext bc = framework.getBundleContext();
    final StartLevel sl = ServiceLookup.getService( bc, StartLevel.class );
    final CountdownLatch latch = new CountdownLatch( 1 );
    bc.addFrameworkListener( new FrameworkListener()
    {

        public void frameworkEvent( FrameworkEvent frameworkEvent )
        {
            switch( frameworkEvent.getType() )
            {
                case FrameworkEvent.STARTLEVEL_CHANGED:
                    if( sl.getStartLevel() == startLevel )
                    {
                        latch.countDown();
                    }
            }
        }
    }
    );
}

```

```

        }
    }
} );
sl.setStartLevel( startLevel );
boolean startLevelReached;
try
{
    startLevelReached = latch.await( timeout, TimeUnit.MILLISECONDS );
    return startLevelReached;
}
catch ( InterruptedException exc )
{
    throw new RemoteException( "interrupted while waiting", exc );
}
}

public void waitForState( long bundleId, int state, long timeoutInMillis )
    throws RemoteException, BundleException
{
    throw new UnsupportedOperationException( "not yet implemented" );
}

public int getBundleState( long bundleId ) throws RemoteException, BundleException
{
    Bundle bundle = framework.getBundleContext().getBundle( bundleId );
    if( bundle == null )
    {
        throw new BundleException( String.format( "bundle [%d] does not exist", bundleId ) );
    }
    return bundle.getState();
}

public RemoteServiceReference[] getServiceReferences( String filter ) throws RemoteException,
    BundleException, InvalidSyntaxException
{
    return getServiceReferences( filter, -1, null );
}

public RemoteServiceReference[] getServiceReferences( String filter, long timeout,
    TimeUnit timeUnit ) throws RemoteException, BundleException,
    InvalidSyntaxException
{
    BundleContext bundleContext = framework.getBundleContext();
    ServiceReference[] serviceReferences = bundleContext.getAllServiceReferences( null, filter );
    if( serviceReferences == null )
    {
        if( timeout < 0 )

```

```

    {
        return new RemoteServiceReference[0];
    }
    ServiceTracker tracker =
        new ServiceTracker( bundleContext, bundleContext.createFilter( filter ), null );
    tracker.open( true );
    try
    {
        tracker.waitForService( timeUnit.toMillis( timeout ) );
        serviceReferences = tracker.getServiceReferences();
        if( serviceReferences == null )
        {
            throw new IllegalStateException( "services vanished too fast..." );
        }
    }
    catch ( InterruptedException e )
    {
        throw new RuntimeException( "interrupted!", e );
    }
    finally
    {
        tracker.close();
    }
}
RemoteServiceReference[] remoteRefs = new RemoteServiceReference[serviceReferences.length];
for( int i = 0; i < remoteRefs.length; i++ )
{
    ServiceReference reference = serviceReferences[i];
    final String serviceFilter =
        "&(" + Constants.SERVICE_ID + "=" + reference.getProperty( Constants.SERVICE_ID )
            + ")" + filter + ")";
    final String[] keys = reference.getPropertyKeys();
    final Map<String, Object> values = new HashMap<String, Object>();
    for( String key : keys )
    {
        values.put( key, reference.getProperty( key ) );
    }
    remoteRefs[i] = new RemoteServiceReferenceImpl( values, serviceFilter );
}
return remoteRefs;
}

public Object invokeMethodOnService( RemoteServiceReference reference, String methodName,
    Object... args ) throws RemoteException, Exception
{
    Class<?>[] argTypes = new Class<?>[args.length];
    for( int i = 0; i < argTypes.length; i++ )
    {

```



```

Object object = args[i];
if( object == null )
{
    throw new IllegalArgumentException(
        "argument "
        + i
        + " is null, use invokeMethodOnService(RemoteServiceReference, String, Class[], Object[]) if you
want to call a service with null argument values" );
}
argTypes[i] = object.getClass();
}
return invokeMethodOnService( reference, methodName, argTypes, args );
}

```

```

public Object invokeMethodOnService( RemoteServiceReference reference, String methodName,
    Class<?>[] parameterTypes, Object[] args ) throws RemoteException,
    Exception
{
    BundleContext bundleContext = framework.getBundleContext();
    ServiceReference[] allServiceReferences =
        bundleContext.getAllServiceReferences( null, reference.getServiceFilter() );
    if( allServiceReferences == null || allServiceReferences.length == 0 )
    {
        throw new IllegalStateException( "service is no longer present" );
    }
    if( allServiceReferences.length > 1 )
    {
        throw new AssertionError(
            "more than one service is matching the reference, this should never happen" );
    }
    Object service = bundleContext.getService( allServiceReferences[0] );
    if( service == null )
    {
        throw new IllegalStateException( "service has vanished between calls" );
    }
    try
    {
        Method method = service.getClass().getMethod( methodName, parameterTypes );
        return method.invoke( service, args );
    }
    finally
    {
        bundleContext.ungetService( allServiceReferences[0] );
    }
}

```

```

public static void main( String[] args ) throws RemoteException, AlreadyBoundException,
    BundleException, InterruptedException

```

```
{
  LOG.fine( "starting RemoteFrameworkImpl" );
  Map<String, String> props = buildFrameworkProperties( args );
  RemoteFrameworkImpl impl = new RemoteFrameworkImpl( props );
  impl.start();
}
}
```

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 */
package org.ops4j.pax.url.maven.commons;

import java.io.File;
import java.net.Authenticator;
import java.net.MalformedURLException;
import java.net.PasswordAuthentication;
import java.net.URL;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import org.ops4j.lang.NullArgumentException;
import org.ops4j.util.property.PropertyResolver;
import org.ops4j.util.property.PropertyStore;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Service Configuration implementation.
 *
 * @author Alin Dreghiciu
 * @see MavenConfiguration
 * @since August 11, 2007
 */
public class MavenConfigurationImpl
```



```

extends PropertyStore
implements MavenConfiguration {

/**
 * Logger.
 */
private static final Logger LOGGER = LoggerFactory.getLogger( MavenConfigurationImpl.class );

/**
 * The character that should be the first character in repositories property in order to be appended with the
 * repositories from settings.xml.
 */
private final static String REPOSITORIES_APPEND_SIGN = "+";

/**
 * Repositories separator.
 */
private final static String REPOSITORIES_SEPARATOR = ",";

/**
 * Use a default timeout of 5 seconds.
 */
private final String DEFAULT_TIMEOUT = "5000";

/**
 * Maven settings abstraction. Can be null.
 */
private MavenSettings m_settings;

/**
 * Configuration PID. Cannot be null or empty.
 */
private final String m_pid;

/**
 * Property resolver. Cannot be null.
 */
private final PropertyResolver m_propertyResolver;

/**
 * Creates a new service configuration.
 *
 * @param propertyResolver propertyResolver used to resolve properties; mandatory
 * @param pid configuration PID; mandatory
 */
public MavenConfigurationImpl( final PropertyResolver propertyResolver, final String pid )
{
    NullArgumentException.validateNotNull( propertyResolver, "Property resolver" );
    NullArgumentException.validateNotEmpty( pid, true, "Configuration pid" );

    m_pid = pid;
    m_propertyResolver = propertyResolver;
}

```

```

public boolean isValid() {
    return m_propertyResolver.get( m_pid + MavenConstants.REQUIRE_CONFIG_ADMIN_CONFIG ) == null;
}

/**
 * Sets maven settings abstraction.
 *
 * @param settings maven settings abstraction
 */
public void setSettings( final MavenSettings settings )
{
    m_settings = settings;
}

/**
 * @see MavenConfiguration#getCertificateCheck()
 */
public Boolean getCertificateCheck()
{
    if( !contains( m_pid + MavenConstants.PROPERTY_CERTIFICATE_CHECK ) ) {
        return set( m_pid + MavenConstants.PROPERTY_CERTIFICATE_CHECK,
            Boolean.valueOf( m_propertyResolver.get( m_pid +
MavenConstants.PROPERTY_CERTIFICATE_CHECK ) )
        );
    }
    return get( m_pid + MavenConstants.PROPERTY_CERTIFICATE_CHECK );
}

/**
 * Returns the URL of settings file. Will try first to use the url as is. If a malformed url encountered then will
 * try to use the url as a file path. If still not valid will throw the original Malformed URL exception.
 *
 * @see MavenConfiguration#getSettingsFileUrl()
 */
public URL getSettingsFileUrl()
{
    if( !contains( m_pid + MavenConstants.PROPERTY_SETTINGS_FILE ) ) {
        String spec = m_propertyResolver.get( m_pid + MavenConstants.PROPERTY_SETTINGS_FILE );
        if( spec != null ) {
            try {
                return set( m_pid + MavenConstants.PROPERTY_SETTINGS_FILE, new URL( spec ) );
            } catch( MalformedURLException e ) {
                File file = new File( spec );
                if( file.exists() ) {
                    try {
                        return set( m_pid + MavenConstants.PROPERTY_SETTINGS_FILE, file.toURI().toURL() );
                    } catch( MalformedURLException ignore ) {

```

```

        // ignore as it usually should not happen since we already have a file
    }
}
else {
    LOGGER.warn( "Settings file [" + spec
        + "] cannot be used and will be skipped (malformed url or file does not exist)"
    );
    set( m_pid + MavenConstants.PROPERTY_SETTINGS_FILE, null );
}
}
}
}
return get( m_pid + MavenConstants.PROPERTY_SETTINGS_FILE );
}

/**
 * Repository is a comma separated list of repositories to be used. If repository acces requests authentication
 * the user name and password must be specified in the repository url as for example
 * http://user:password@repository.ops4j.org/maven2.<br/>
 * If the repository from 1/2 bellow starts with a plus (+) the option 3 is also used and the repositories from
 * settings.xml will be cummulated.<br/>
 * Repository resolution:<br/>
 * 1. looks for a configuration property named repository;<br/>
 * 2. looks for a framework property/system setting repository;<br/>
 * 3. looks in settings.xml (see settings.xml resolution). in this case all configured repositories will be used
 * including configured user/password. In this case the central repository is also added.
 * Note that the local repository is added as the first repository if exists.
 *
 * @see MavenConfiguration#getRepositories()
 * @see MavenConfiguration#getLocalRepository()
 */
public List<MavenRepositoryURL> getDefaultRepositories()
    throws MalformedURLException
{
    if( !contains( m_pid + MavenConstants.PROPERTY_DEFAULT_REPOSITORIES ) ) {
        // look for repositories property
        String defaultRepositoriesProp =
            m_propertyResolver.get( m_pid + MavenConstants.PROPERTY_DEFAULT_REPOSITORIES );
        // build repositories list
        final List<MavenRepositoryURL> defaultRepositoriesProperty = new ArrayList<MavenRepositoryURL>();
        if( defaultRepositoriesProp != null && defaultRepositoriesProp.trim().length() > 0 ) {
            String[] repositories = defaultRepositoriesProp.split( REPOSITORIES_SEPARATOR );
            for( String repositoryURL : repositories ) {
                defaultRepositoriesProperty.add( new MavenRepositoryURL( repositoryURL.trim() ) );
            }
        }
        LOGGER.trace( "Using repositories [" + defaultRepositoriesProperty + "]" );
        return set( m_pid + MavenConstants.PROPERTY_DEFAULT_REPOSITORIES,

```

```

defaultRepositoriesProperty );
    }
    return get( m_pid + MavenConstants.PROPERTY_DEFAULT_REPOSITORIES );
}

/**
 * Repository is a comma separated list of repositories to be used. If repository acces requests authentication
 * the user name and password must be specified in the repository url as for example
 * http://user:password@repository.ops4j.org/maven2.<br/>
 * If the repository from 1/2 bellow starts with a plus (+) the option 3 is also used and the repositories from
 * settings.xml will be cummulated.<br/>
 * Repository resolution:<br/>
 * 1. looks for a configuration property named repository;<br/>
 * 2. looks for a framework property/system setting repository;<br/>
 * 3. looks in settings.xml (see settings.xml resolution). in this case all configured repositories will be used
 * including configured user/password. In this case the central repository is also added.
 * Note that the local repository is added as the first repository if exists.
 *
 * @see MavenConfiguration#getRepositories()
 * @see MavenConfiguration#getLocalRepository()
 */
public List<MavenRepositoryURL> getRepositories()
    throws MalformedURLException
{
    if( !contains( m_pid + MavenConstants.PROPERTY_REPOSITORIES ) ) {
        // look for repositories property
        String repositoriesProp = m_propertyResolver.get( m_pid + MavenConstants.PROPERTY_REPOSITORIES
);
        // if not set or starting with a plus (+) get repositories from settings xml
        if( ( repositoriesProp == null || repositoriesProp.startsWith( REPOSITORIES_APPEND_SIGN ) )
            && m_settings != null ) {
            String settingsRepos = m_settings.getRepositories();
            if( settingsRepos != null ) {
                if( repositoriesProp == null ) {
                    repositoriesProp = settingsRepos;
                }
                else {
                    // apend repositories from settings xml and get rid of +
                    repositoriesProp = repositoriesProp.substring( 1 ) + REPOSITORIES_SEPARATOR + settingsRepos;
                }
            }
        }
        // build repositories list
        final List<MavenRepositoryURL> repositoriesProperty = new ArrayList<MavenRepositoryURL>();
        if( m_propertyResolver.get(m_pid + MavenConstants.PROPERTY_LOCAL_REPO_AS_REMOTE) != null)
        {
            MavenRepositoryURL localRepository = getDefaultLocalRepository();
            if( localRepository != null ) {

```

```

        repositoriesProperty.add( localRepository );
    }
}
if( repositoriesProp != null && repositoriesProp.trim().length() > 0 ) {
    String[] repositories = repositoriesProp.split( REPOSITORIES_SEPARATOR );
    for( String repositoryURL : repositories ) {
        repositoriesProperty.add( new MavenRepositoryURL( repositoryURL.trim() ) );
    }
}
LOGGER.trace( "Using repositories [" + repositoriesProperty + "]" );
return set( m_pid + MavenConstants.PROPERTY_REPOSITORIES, repositoriesProperty );
}
return get( m_pid + MavenConstants.PROPERTY_REPOSITORIES );
}

/**
 * Resolves local repository directory by using the following resolution:<br/>
 * 1. looks for a configuration property named localRepository;
 * 2. looks for a framework property/system setting localRepository;<br/>
 * 3. looks in settings.xml (see settings.xml resolution);<br/>
 * 4. falls back to ${user.home}/.m2/repository.
 *
 * @see MavenConfiguration#getLocalRepository()
 */
public MavenRepositoryURL getLocalRepository()
{
    if( !contains( m_pid + MavenConstants.PROPERTY_LOCAL_REPOSITORY ) ) {
        // look for a local repository property
        String spec = m_propertyResolver.get( m_pid + MavenConstants.PROPERTY_LOCAL_REPOSITORY );
        // if not set get local repository from maven settings
        if( spec == null && m_settings != null ) {
            spec = m_settings.getLocalRepository();
        }
        if( spec != null ) {
            if( !spec.toLowerCase().contains( "@snapshots" ) ) {
                spec += "@snapshots";
            }
            spec += "@id=local";
            // check if we have a valid url
            try {
                return set( m_pid + MavenConstants.PROPERTY_LOCAL_REPOSITORY, new
MavenRepositoryURL( spec ) );
            } catch( MalformedURLException e ) {
                // maybe is just a file?
                try {
                    return set( m_pid + MavenConstants.PROPERTY_LOCAL_REPOSITORY,
new MavenRepositoryURL( new File( spec ).toURI().toASCIIString() ) );
                }
            }
        }
    }
}

```

```

    } catch( MalformedURLException ignore ) {
        LOGGER.warn( "Local repository [" + spec + "] cannot be used and will be skipped" );
        return set( m_pid + MavenConstants.PROPERTY_LOCAL_REPOSITORY, null );
    }

    }
}
}
return get( m_pid + MavenConstants.PROPERTY_LOCAL_REPOSITORY );
}

public MavenRepositoryURL getDefaultLocalRepository() {
    if (m_settings != null) {
        String spec = m_settings.getLocalRepository();
        if (!spec.toLowerCase().contains("@snapshots")) {
            spec += "@snapshots";
        }
        spec += "@id=defaultlocal";
        // check if we have a valid url
        try {
            return new MavenRepositoryURL(spec);
        } catch (MalformedURLException e) {
            // maybe is just a file?
            try {
                return new MavenRepositoryURL(new File(spec).toURI().toASCIIString());
            } catch (MalformedURLException ignore) {
                LOGGER.warn("Local repository [" + spec + "] cannot be used and will be skipped");
                return null;
            }
        }
    }
}
return null;
}

public Integer getTimeout() {
    if( !contains( m_pid + MavenConstants.PROPERTY_TIMEOUT ) ) {
        String timeout = m_propertyResolver.get( m_pid + MavenConstants.PROPERTY_TIMEOUT);
        return set( m_pid + MavenConstants.PROPERTY_TIMEOUT,
            Integer.valueOf( timeout == null ? DEFAULT_TIMEOUT : timeout )
        );
    }
    return get( m_pid + MavenConstants.PROPERTY_TIMEOUT);
}

/**
 * {@inheritDoc}
 */

```

```

public Boolean useFallbackRepositories()
{
    if( !contains( m_pid + MavenConstants.PROPERTY_USE_FALLBACK_REPOSITORIES ) ) {
        String useFallbackRepoProp = m_propertyResolver.get( m_pid +
MavenConstants.PROPERTY_USE_FALLBACK_REPOSITORIES );
        return set( m_pid + MavenConstants.PROPERTY_USE_FALLBACK_REPOSITORIES,
            Boolean.valueOf( useFallbackRepoProp == null ? "true" : useFallbackRepoProp )
        );
    }
    return get( m_pid + MavenConstants.PROPERTY_USE_FALLBACK_REPOSITORIES );
}

/**
 * Enables the proxy server for a given URL.
 *
 * @deprecated This method has side-effects and is only used in the "old" resolver.
 */
public void enableProxy( URL url )
{
    final String protocol = url.getProtocol();

    Map<String, String> proxyDetails = getProxySettings( url.getProtocol() ).get( protocol );
    if( proxyDetails != null ) {
        LOGGER.trace( "Enabling proxy [" + proxyDetails + "]" );

        final String user = proxyDetails.get( "user" );
        final String pass = proxyDetails.get( "pass" );

        Authenticator.setDefault( new Authenticator() {
            @Override
            protected PasswordAuthentication getPasswordAuthentication()
            {
                return new PasswordAuthentication( user, pass.toCharArray() );
            }
        } );

        System.setProperty( protocol + ".proxyHost", proxyDetails.get( "host" ) );
        System.setProperty( protocol + ".proxyPort", proxyDetails.get( "port" ) );

        System.setProperty( protocol + ".nonProxyHosts", proxyDetails.get( "nonProxyHosts" ) );

        set( m_pid + MavenConstants.PROPERTY_PROXY_SUPPORT, protocol );
    }
}

private boolean isProtocolSupportEnabled( String... protocols )
{

```

```

    final String proxySupport = m_propertyResolver.get( m_pid +
MavenConstants.PROPERTY_PROXY_SUPPORT );
    if( proxySupport == null ) {
        return MavenConstants.PROPERTY_PROXY_SUPPORT_DEFAULT;
    }

    // simple cases:
    if( "true".equalsIgnoreCase( proxySupport ) ) {
        return true;
    }
    if( "false".equalsIgnoreCase( proxySupport ) ) {
        return false;
    }

    // giving no protocols to test against, default to true.
    if( protocols.length == 0 ) {
        return true;
    }

    // differentiate by protocol:
    for( String protocol : protocols ) {
        if( proxySupport.contains( protocol ) ) {
            return true;
        }
    }
    // not in list appearingly.
    return false;
}

public Map<String, Map<String, String>> getProxySettings( String... protocols )
{
    Map<String, Map<String, String>> pr = new HashMap<String, Map<String, String>>();

    if( isProtocolSupportEnabled( protocols ) ) {

        parseSystemWideProxySettings( pr );
        parseProxiesFromProperty( m_propertyResolver.get( m_pid + MavenConstants.PROPERTY_PROXIES ), pr
);

        if( pr.isEmpty() ) {
            if( m_settings == null ) { return Collections.emptyMap(); }

            return m_settings.getProxySettings();
        }
    }
    return pr;
}

```



```

private void parseSystemWideProxySettings( Map<String, Map<String, String>> pr )
{
    String httpHost = m_propertyResolver.get( "http.proxyHost" );
    String httpPort = m_propertyResolver.get( "http.proxyPort" );

    if( httpHost != null ) {
        parseProxiesFromProperty( "http:host=" + httpHost + ",port=" + httpPort, pr );
    }
}

// example: http:host=foo,port=8080;https:host=bar,port=9090
private void parseProxiesFromProperty( String proxySettings, Map<String, Map<String, String>> pr )
{
    // TODO maybe make the parsing more clever via regex ;) Or not.
    try {
        if( proxySettings != null ) {
            String[] protocols = proxySettings.split( ";" );

            for( String protocolSection : protocols ) {
                String[] section = protocolSection.split( ":" );
                String protocolName = section[ 0 ];
                Map<String, String> keyvalue = new HashMap<String, String>();
                // set some defaults:
                keyvalue.put( "protocol", protocolName );
                keyvalue.put( "nonProxyHosts", "" );
                keyvalue.put( "host", "localhost" );
                keyvalue.put( "port", "80" );

                keyvalue.put( "nonProxyHosts", "" );

                for( String keyvalueList : section[ 1 ].split( ";" ) ) {
                    String[] kv = keyvalueList.split( "=" );
                    String key = kv[ 0 ];
                    String value = kv[ 1 ];
                    keyvalue.put( key, value );
                }
                pr.put( protocolName, keyvalue );
            }
        }
    } catch( ArrayIndexOutOfBoundsException ex ) {
        throw new IllegalArgumentException( "Proxy setting is set to " + proxySettings + ". But it should have this
format: <protocol>:<key>=<value>,<key=value>;protocol:<key>=<value>,.." );
    }
}

public Map<String, Map<String, String>> getMirrors()
{
    // DO support mirrors via properties (just like we do for proxies.

```

```

        if( m_settings == null ) { return Collections.emptyMap(); }
        return m_settings.getMirrorSettings();
    }

}

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 */
package org.ops4j.pax.url.maven.commons;

import java.io.File;
import java.io.IOException;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.regex.Matcher;

import javax.xml.parsers.ParserConfigurationException;

import org.ops4j.util.xml.XmlUtils;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.xml.sax.SAXException;

/**
 * Default implementation of Settings. It actually parses a given settings.xml file.

```

```

*
* @author Alin Dreghiciu
* @see MavenSettings
* @since August 10, 2007
*/
public class MavenSettingsImpl
    implements MavenSettings
{

    /**
     * Logger.
     */
    private static final Logger LOGGER = LoggerFactory.getLogger( MavenSettingsImpl.class );
    /**
     * Path of local repository tag.
     */
    private static final String LOCAL_REPOSITORY_TAG = "localRepository";
    /**
     * Path to server tag.
     */
    private static final String SERVER_TAG = "servers/server";

    /**
     * Path to profiles tag.
     */
    private static final String PROFILE_TAG = "profiles/profile";

    /**
     * Path to repository tag.
     */
    private static final String REPOSITORY_TAG = "repositories/repository";

    /**
     * Path to activeProfiles tag.
     */
    private static final String ACTIVE_PROFILES_TAG = "activeProfiles/activeProfile";

    /**
     * Path to proxy tag.
     */
    private static final String PROXY_TAG = "proxies/proxy";

    /**
     * Path to mirror tag.
     */
    private static final String MIRROR_TAG = "mirrors/mirror";
}

```

```

/**
 * Fallback Maven repositories.
 */
private static final String FALLBACK_REPOSITORIES =
    "http://repo1.maven.org/maven2@id=central";

/**
 * The settings.xml DOM Document. Null if there is no settings.xml.
 */
private Document m_document;

/**
 * The settings.xml file url. Can be null if no settings.xml was resolved.
 */
private URL m_settingsURL;

/**
 * Forces uses of fallback repositories instead of default repositories.
 */
private final boolean m_useFallbackRepositories;

/**
 * The local repository spec.
 */
private String m_localRepository;

/**
 * Comma separated list of repositories. Null if there is no settings xml or settings.xml does not contain
 * repositories.
 */
private String m_repositories;

/**
 * Map of known proxies for various protocols
 */
private Map<String, Map<String, String>> m_proxySettings;

/**
 * Map of known mirrors mirrorOf -> url
 */
private Map<String, Map<String, String>> m_mirrorsSettings;

/**
 * Creates new settings with the following resolution:<br/>
 * 1. looks for the specified url
 * 2. if not found looks for ${user.home}/.m2/settings.xml
 * 3. if not found looks for ${maven.home}/conf/settings.xml
 * 4. if not found looks for ${M2_HOME}/conf/settings.xml
 *
 * @param settingsURL preferred settings.xml file
 * @param useFallbackRepositories if fallback repositories should be used instead of default repositories
 */
public MavenSettingsImpl( final URL settingsURL,

```

```

        final boolean useFallbackRepositories )
    {
        m_settingsURL = settingsURL;
        m_useFallbackRepositories = useFallbackRepositories;
        if( m_settingsURL == null )
        {
            m_settingsURL = safeGetFile( System.getProperty( "user.home" ) + "/.m2/settings.xml" );
            if( m_settingsURL == null )
            {
                m_settingsURL = safeGetFile( System.getProperty( "maven.home" ) + "/conf/settings.xml" );
                if( m_settingsURL == null )
                {
                    try
                    {
                        m_settingsURL = safeGetFile( System.getenv( "M2_HOME" ) + "/conf/settings.xml" );
                    }
                    catch( Error e )
                    {
                        // ignore error - probably running on Java 1.4.x
                    }
                }
            }
        }
    }

/**
 * See { @link #MavenSettingsImpl(java.net.URL, boolean)}.
 * Forces use of default repositories.
 *
 * @param settingsURL preferred settings.xml file
 */
public MavenSettingsImpl( final URL settingsURL )
{
    this( settingsURL, false );
}

/**
 * Returns the local repository directory from settings.xml. If there is no settings.xml file, or the settings.xml
 * does not contain an <localRepository> tag or the value of that tag is empty it will return the hardcoded
 * standard location: ${user.home}/.m2/repository
 *
 * @return the local repository directory
 */
public String getLocalRepository()
{
    if( m_localRepository == null )
    {
        readSettings();
    }
}

```

```

if( m_document != null )
{
    Element settingsElement = XmlUtils.getElement( m_document, LOCAL_REPOSITORY_TAG );
    if( settingsElement != null )
    {
        m_localRepository = XmlUtils.getTextContent( settingsElement );
    }
}
if( m_localRepository == null || m_localRepository.trim().length() == 0 )
{
    m_localRepository = System.getProperty( "user.home" ) + "/.m2/repository";
}
}
return m_localRepository;
}

/**
 * Gets the list of repositories from settings.xml.
 * If there is no settings.xml file or there are no repositories in settings.xml the list returned will be null.
 *
 * If there are repositories in settings.xml and those repositories have user and password the user and password
 * will be included in the repository url as for example http://user:password@repository.ops4j.org/maven2.
 *
 * Repositories are organized in profiles.
 * Active profiles are selected by looking at activeProfiles tag (just under <settings>)
 *
 * @return a comma separated list of repositories from settings.xml
 */
public String getRepositories()
{
    if( m_repositories == null )
    {
        readSettings();
        if( m_document != null )
        {
            Set<String> activeProfiles = getActiveProfiles();
            Map<String, String> repositories = null;
            List<String> order = null;
            List<Element> profiles = XmlUtils.getElements( m_document, PROFILE_TAG );
            // first look for profiles
            if( profiles != null )
            {
                for( Element profile : profiles )
                {
                    Element profileIdElement = XmlUtils.getElement( profile, "id" );
                    if( profileIdElement != null )
                    {
                        String profileId = XmlUtils.getTextContent( profileIdElement );

```

```

if( profileId != null )
{
    if( activeProfiles.contains( profileId ) )
    {
        List<Element> repos = XmlUtils.getElements( profile, REPOSITORY_TAG );
        if( repos != null )
        {
            for( Element repo : repos )
            {
                Element element = XmlUtils.getElement( repo, "id" );
                if( element != null )
                {
                    String id = XmlUtils.getTextContent( element );
                    element = XmlUtils.getElement( repo, "layout" );
                    String layout = null;
                    if( element != null )
                    {
                        layout = XmlUtils.getTextContent( element );
                    }
                    // take only repositories with a default layout (skip legacy ones)
                    if( layout == null || "default".equals( layout ) )
                    {
                        String snapshots =
                            XmlUtils.getTextContentOfElement( repo, "snapshots/enabled" );
                        String releases =
                            XmlUtils.getTextContentOfElement( repo, "releases/enabled" );
                        element = XmlUtils.getElement( repo, "url" );
                        if( element != null )
                        {
                            String url = XmlUtils.getTextContent( element );
                            if( url != null )
                            {
                                if( repositories == null )
                                {
                                    repositories = new HashMap<String, String>();
                                    order = new ArrayList<String>();
                                }
                                if( snapshots != null && Boolean.valueOf( snapshots ) )
                                {
                                    url += MavenConstants.SEPARATOR_OPTIONS +
MavenConstants.OPTION_ALLOW_SNAPSHOTS;
                                }
                                if( releases != null && !Boolean.valueOf( releases ) )
                                {
                                    url += MavenConstants.SEPARATOR_OPTIONS +
MavenConstants.OPTION_DISALLOW_RELEASES;
                                }
                                url += MavenConstants.SEPARATOR_OPTIONS +

```

```
MavenConstants.OPTION_ID + "=" + id;
```

```
        repositories.put( id, url );
        order.add( id );
    }
}
}
}
}
}
}
else
{
    LOGGER.debug( "Profile " + "[" + profileId + "] is inactive (ignored).");
}
}
}
}
```

```
// then look for user / passwords but only if we have repositories
```

```
if( repositories != null )
```

```
{
```

```
    List<Element> servers = XmlUtils.getElements( m_document, SERVER_TAG );
```

```
    if( servers != null )
```

```
    {
```

```
        for( Element server : servers )
```

```
        {
```

```
            Element element = XmlUtils.getElement( server, "id" );
```

```
            if( element != null )
```

```
            {
```

```
                String id = XmlUtils.getTextContent( element );
```

```
                // if we do not find a corresponding repository don't go further
```

```
                String repository = repositories.get( id );
```

```
                if( repository != null && repository.contains( "://" ) )
```

```
                {
```

```
                    element = XmlUtils.getElement( server, "username" );
```

```
                    if( element != null )
```

```
                    {
```

```
                        String username = XmlUtils.getTextContent( element );
```

```
                        // if there is no username stop the search
```

```
                        if( username != null )
```

```
                        {
```

```
                            element = XmlUtils.getElement( server, "password" );
```

```
                            if( element != null )
```

```
                            {
```

```
                                String password = XmlUtils.getTextContent( element );
```

```
                                if( password != null )
```

```
                                {
```



```

        username = username + ":" + password;
    }
}
// PAXURL-86: treat string as
// literal
String repo = "://" + username + "@";
repo = Matcher.quoteReplacement(repo);
repositories.put(id, repository.replaceFirst("://", repo));
    }
}
}
}
}
}
}
}
// build the list of repositories
final StringBuilder builder = new StringBuilder();
if( order != null )
{
    for( String repositoryId : order )
    {
        if( builder.length() > 0 )
        {
            builder.append(",");
        }
        builder.append( repositories.get( repositoryId ) );
    }
}
m_repositories = builder.toString();
}
}

// PAXURL-92 Have the ability to only use a local repository, by
// not requiring the use of a DEFAULT_REPOSITORY. Helps with
// users who have proxies and want to lockdown their repos.
if( m_useFallbackRepositories )
{
    if( m_repositories == null || m_repositories.length() == 0 )
    {
        m_repositories = FALLBACK_REPOSITORIES;
    }
    else
    {
        m_repositories = m_repositories + "," + FALLBACK_REPOSITORIES;
    }
}
}
return m_repositories;

```

```

}

private Set<String> getActiveProfiles()
{
    Set<String> ret = new HashSet<String>();
    List<Element> activeProfiles = XmlUtils.getElements( m_document, ACTIVE_PROFILES_TAG );
    if( activeProfiles != null )
    {
        for( Element active : activeProfiles )
        {
            ret.add( XmlUtils.getTextContent( active ) );
        }
    }

    return ret;
}

/**
 * Reads the settings.xml file. All exceptions raised during acces or parsing are rethrown as RuntimeException.
 */

private void readSettings()
{
    if( m_document == null && m_settingsURL != null )
    {
        try
        {
            m_document = XmlUtils.parseDoc( m_settingsURL.openStream() );
        }
        catch( ParserConfigurationException e )
        {
            throw new RuntimeException( "Could not parse settings [" + m_settingsURL + "]", e );
        }
        catch( SAXException e )
        {
            throw new RuntimeException( "Could not parse settings [" + m_settingsURL + "]", e );
        }
        catch( IOException e )
        {
            throw new RuntimeException( "Could not parse settings [" + m_settingsURL + "]", e );
        }
    }
}

/**
 * Looks for the file denoted by file path and returns the corresponding file if the file exists, is a file and can
 * be read. Otherwise returns null.

```

```

*
* @param filePath the path to the file
*
* @return the file denoted by the file path if can be read or null otherwise
*/
private static URL safeGetFile( final String filePath )
{
    if( filePath != null )
    {
        File file = new File( filePath );
        if( file.exists() && file.canRead() && file.isFile() )
        {
            try
            {
                return file.toURI().toURL();
            }
            catch( MalformedURLException e )
            {
                // do nothing
            }
        }
    }
    return null;
}

private String getSetting( Element element, String settingName, String defaultSetting )
{
    final String setting = XmlUtils.getTextContentOfElement( element, settingName );
    if( setting == null )
    {
        return defaultSetting;
    }
    return setting;
}

/**
* Returns the active proxy settings from settings.xml
*
* @return the active proxy settings
*/
public Map<String, Map<String, String>> getProxySettings()
{
    if( m_proxySettings == null )
    {
        m_proxySettings = new HashMap<String, Map<String, String>>();

        readSettings();
        if( m_document != null )

```

```

    {
        List<Element> proxies = XmlUtils.getElements( m_document, PROXY_TAG );
        if( proxies != null )
        {
            for( Element proxy : proxies )
            {
                String active = getSetting( proxy, "active", "false" );
                String protocol = getSetting( proxy, "protocol", "http" );

                if( !m_proxySettings.containsKey( protocol ) || "true".equalsIgnoreCase( active ) )
                {
                    Map<String, String> proxyDetails = new HashMap<String, String>();

                    proxyDetails.put( "user", getSetting( proxy, "username", null ) );
                    proxyDetails.put( "pass", getSetting( proxy, "password", null ) );
                    proxyDetails.put( "host", getSetting( proxy, "host", "127.0.0.1" ) );
                    proxyDetails.put( "port", getSetting( proxy, "port", "80" ) );

                    proxyDetails.put( "nonProxyHosts", getSetting( proxy, "nonProxyHosts", "" ) );
                    proxyDetails.put( "protocol", protocol);

                    m_proxySettings.put( protocol, proxyDetails );
                }
            }
        }
    }

    return Collections.unmodifiableMap( m_proxySettings );
}

public Map<String, Map<String, String>> getMirrorSettings() {
    if( m_mirrorsSettings == null )
    {
        m_mirrorsSettings = new HashMap<String, Map<String, String>>();
        readSettings();
        if( m_document != null )
        {
            List<Element> mirrors = XmlUtils.getElements( m_document, MIRROR_TAG );
            if( mirrors != null )
            {
                for( Element mirror : mirrors )
                {
                    String id = getSetting( mirror, "id", "" );
                    if( !m_mirrorsSettings.containsKey(id) )
                    {
                        Map<String, String> proxyDetails = new HashMap<String, String>();

```

```

        proxyDetails.put( "id", id );
        proxyDetails.put( "url", getSetting( mirror, "url", "" ) );
        proxyDetails.put( "mirrorOf", getSetting( mirror, "mirrorOf", "default" ) );
        proxyDetails.put( "layout", getSetting( mirror, "layout", "" ) );
        proxyDetails.put( "mirrorOfLayouts", getSetting( mirror, "mirrorOfLayouts", "" ) );
        m_mirrorsSettings.put(id, proxyDetails);
    }
}
}
}
}
return Collections.unmodifiableMap( m_mirrorsSettings );
}
}
}

```

## 8.206 OPS4J Pax Url - wrap: 1.6.0

### 8.206.1 Available under license :

```

/*
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 */
package org.ops4j.pax.url.wrap.internal;

import org.ops4j.lang.NullArgumentException;
import org.ops4j.pax.url.wrap.ServiceConstants;
import org.ops4j.util.property.PropertyResolver;
import org.ops4j.util.property.PropertyStore;

/**
 * Service Configuration implementation.
 *
 * @author Alin Dreghiciu
 */

```

```

* @see Configuration
* @since September 09, 2007
*/
public class ConfigurationImpl
    extends PropertyStore
    implements Configuration
{

    /**
     * Property resolver. Cannot be null.
     */
    private final PropertyResolver m_propertyResolver;

    /**
     * Creates a new service configuration.
     *
     * @param propertyResolver propertyResolver used to resolve properties; mandatory
     */
    public ConfigurationImpl( final PropertyResolver propertyResolver )
    {
        NullPointerException.validateNotNull( propertyResolver, "Property resolver" );
        m_propertyResolver = propertyResolver;
    }

    /**
     * @see Configuration#getCertificateCheck()
     */
    public Boolean getCertificateCheck()
    {
        if( !contains( ServiceConstants.PROPERTY_CERTIFICATE_CHECK ) )
        {
            return set( ServiceConstants.PROPERTY_CERTIFICATE_CHECK,
                Boolean.valueOf( m_propertyResolver.get( ServiceConstants.PROPERTY_CERTIFICATE_CHECK
            ))
        );
    }
    return get( ServiceConstants.PROPERTY_CERTIFICATE_CHECK );
}
}

```

## 8.207 org.eclipse.osgi 3.8.1.v20120830-144521

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```
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* http://www.eclipse.org/legal/epl-v10.html  
*  
* Contributors:  
*   IBM Corporation - initial API and implementation  
*   Alex Blewitt (bug 172969)  
*****/
```

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## 8.208 org.eclipse.sisu.inject 0.1.0

### 8.208.1 Available under license :

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 *  
 * Contributors:  
 *   Stuart McCulloch (Sonatype, Inc.) - initial API and implementation  
 */
```

```
package org.eclipse.sisu.inject;
```

```
import com.google.inject.Provider;  
import com.google.inject.spi.BindingTargetVisitor;  
import com.google.inject.spi.ConstructorBinding;  
import com.google.inject.spi.DefaultBindingTargetVisitor;  
import com.google.inject.spi.ExposedBinding;  
import com.google.inject.spi.InstanceBinding;  
import com.google.inject.spi.LinkedKeyBinding;  
import com.google.inject.spi.ProviderInstanceBinding;  
import com.google.inject.spi.UntargettedBinding;
```

```

/**
 * {@link BindingTargetVisitor} that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
    extends DefaultBindingTargetVisitor<Object, Class<?>>
{
    // -----
    // Constants
    // -----

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // -----
    // Public methods
    // -----

    @Override
    public Class<?> visit( final UntargettedBinding<?> binding )
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final LinkedKeyBinding<?> binding )
    {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final ConstructorBinding<?> binding )
    {
        return binding.getConstructor().getDeclaringType().getRawType();
    }

    @Override
    public Class<?> visit( final InstanceBinding<?> binding )
    {
        return binding.getInstance().getClass();
    }

    @Override
    public Class<?> visit( final ProviderInstanceBinding<?> binding )
    {
        final Provider<?> provider = binding.getProviderInstance();
        if ( provider instanceof DeferredProvider<?> )
        {
            try

```

```

    {
        // deferred providers let us peek at the underlying implementation type
        return ( (DeferredProvider<?>) provider ).getImplementationClass().load();
    }
    catch ( final TypeNotPresentException e ) // NOPMD
    {
        // fall-through
    }
}
return null;
}

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}
}
/*****
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*
* Contributors:
*   Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
*****/
package org.eclipse.sisu.inject;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @{ @link ImplementedBy}, @{ @link ProvidedBy}, and concrete types.
 */
final class ImplicitBindings
{
    // -----
    // Implementation fields
    // -----

    private final Iterable<BindingPublisher> publishers;

```

```

// -----
// Constructors
// -----

ImplicitBindings( final Iterable<BindingPublisher> publishers )
{
    this.publishers = publishers;
}

// -----
// Public methods
// -----

@SuppressWarnings( { "unchecked", "rawtypes" } )
public <T> Binding<T> get( final TypeLiteral<T> type )
{
    final Key implicitKey = TypeArguments.implicitKey( type.getRawType() );
    for ( final BindingPublisher p : publishers )
    {
        if ( p instanceof InjectorPublisher )
        {
            // first round: check for any re-written implicit bindings
            final Injector i = ( InjectorPublisher ) p ).getInjector();
            final Binding binding = i.getBindings().get( implicitKey );
            if ( null != binding )
            {
                Logs.trace( "Using implicit binding: {} from: <>", binding, i );
                return binding;
            }
        }
    }

    final Key justInTimeKey = Key.get( type );
    for ( final BindingPublisher p : publishers )
    {
        if ( p instanceof InjectorPublisher )
        {
            // second round: fall back to just-in-time binding lookup
            final Injector i = ( InjectorPublisher ) p ).getInjector();
            try
            {
                final Binding binding = i.getBinding( justInTimeKey );
                if ( InjectorPublisher.isVisible( binding ) )
                {
                    Logs.trace( "Using just-in-time binding: {} from: <>", binding, i );
                    return binding;
                }
            }
        }
    }
}

```

```

        catch ( final RuntimeException e ) // NOPMD
        {
            // no luck, move onto next injector
        }
        catch ( final LinkageError e ) // NOPMD
        {
            // no luck, move onto next injector
        }
    }
}
return null;
}
}

```

## 8.209 org.eclipse.sisu.plexus 0.1.0

### 8.209.1 Available under license :

```

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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
*****/
package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;

import org.codehaus.plexus.component.annotations.Component;

/**
 * Partial runtime implementation of Plexus @ {@link Component} annotation, supporting the most common
 * attributes.
 */
final class ComponentImpl
    implements Component
{
    // -----
    // Constants
    // -----

    // computed hashCode representing hard-coded attributes
    private static final int HASH_CODE_OFFSET = 0x685499F5;

```

```

// -----
// Implementation fields
// -----

private final Class<?> role;

private final String hint;

private final String instantiationStrategy;

private final String description;

// -----
// Constructors
// -----

ComponentImpl( final Class<?> role, final String hint, final String instantiationStrategy, final String description )
{
    if ( null == role || null == hint || null == instantiationStrategy || null == description )
    {
        throw new IllegalArgumentException( "@Component cannot contain null values" );
    }

    this.role = role;
    this.hint = hint;
    this.instantiationStrategy = instantiationStrategy;
    this.description = description;
}

// -----
// Annotation properties
// -----

public Class<?> role()
{
    return role;
}

public String hint()
{
    return hint;
}

public String instantiationStrategy()
{
    return instantiationStrategy;
}

```



```
public String description()
{
    return description;
}

public boolean isolatedRealm()
{
    return false;
}

public String alias()
{
    return "";
}

public String composer()
{
    return "";
}

public String configurator()
{
    return "";
}

public String factory()
{
    return "";
}

public String lifecycleHandler()
{
    return "";
}

public String profile()
{
    return "";
}

public String type()
{
    return "";
}

public String version()
{
    return "";
}
```

```

}

// -----
// Standard annotation behaviour
// -----

@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Component )
    {
        final Component cmp = (Component) rhs;

        if ( role.equals( cmp.role() ) && hint.equals( cmp.hint() )
            && instantiationStrategy.equals( cmp.instantiationStrategy() )
            && description.equals( cmp.description() ) )
        {
            // optimization: we hard-code all these attributes to be empty
            final String hardCodedAttributes =
                cmp.alias() + cmp.composer() + cmp.configurator() + cmp.factory() + cmp.lifecycleHandler()
                + cmp.profile() + cmp.type() + cmp.version();

            return hardCodedAttributes.length() == 0 && !cmp.isolatedRealm();
        }
    }

    return false;
}

@Override
public int hashCode()
{
    return HASH_CODE_OFFSET + ( 127 * "role".hashCode() ^ role.hashCode() )
        + ( 127 * "hint".hashCode() ^ hint.hashCode() )
        + ( 127 * "instantiationStrategy".hashCode() ^ instantiationStrategy.hashCode() )
        + ( 127 * "description".hashCode() ^ description.hashCode() );
}

@Override
public String toString()
{
    return String.format( "@%s(isolatedRealm=false, composer=, configurator=, alias=, description=%s, "
        + "instantiationStrategy=%s, factory=, hint=%s, type=, lifecycleHandler=, version=, "

```

```

        + "profile=, role=%s)", Component.class.getName(), description, instantiationStrategy, hint, role );
    }

    public Class<? extends Annotation> annotationType()
    {
        return Component.class;
    }
}

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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
 *****/
package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;

import org.codehaus.plexus.component.annotations.Configuration;

/**
 * Runtime implementation of Plexus {@link Configuration} annotation.
 */
final class ConfigurationImpl
    implements Configuration
{
    // -----
    // Implementation fields
    // -----

    private final String name;

    private final String value;

    // -----
    // Constructors
    // -----

    ConfigurationImpl( final String name, final String value )
    {
        if ( null == name || null == value )
        {
            throw new IllegalArgumentException( "@Configuration cannot contain null values" );
        }
    }
}

```

```

    this.name = name;
    this.value = value;
}

// -----
// Annotation properties
// -----

public String name()
{
    return name;
}

public String value()
{
    return value;
}

// -----
// Standard annotation behaviour
// -----

@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Configuration )
    {
        final Configuration conf = (Configuration) rhs;

        return name.equals( conf.name() ) && value.equals( conf.value() );
    }

    return false;
}

@Override
public int hashCode()
{
    return ( 127 * "name".hashCode() ^ name.hashCode() ) + ( 127 * "value".hashCode() ^ value.hashCode() );
}

@Override

```

```

public String toString()
{
    return String.format( "@%s(name=%s, value=%s)", Configuration.class.getName(), name, value );
}

public Class<? extends Annotation> annotationType()
{
    return Configuration.class;
}
}

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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
*****/
package org.eclipse.sisu.plexus;

import java.util.Map.Entry;

import com.google.inject.TypeLiteral;
import com.google.inject.name.Named;

/**
 * { @link Entry } representing a missing @ { @link Named } Plexus bean.
 */
final class MissingPlexusBean<T>
    implements PlexusBean<T>
{
    // -----
    // Implementation fields
    // -----

    private final TypeLiteral<T> role;

    private final String hint;

    // -----
    // Constructors
    // -----

    MissingPlexusBean( final TypeLiteral<T> role, final String hint )
    {
        this.role = role;
    }
}

```

```

        this.hint = hint;
    }

    // -----
    // Public methods
    // -----

    public String getKey()
    {
        return hint;
    }

    public T getValue()
    {
        return Roles.throwMissingComponentException( role, hint );
    }

    public T setValue( final T value )
    {
        throw new UnsupportedOperationException();
    }

    public String getDescription()
    {
        return null;
    }

    public Class<T> getImplementationClass()
    {
        return null;
    }

    @Override
    public String toString()
    {
        return getKey() + "<missing>";
    }
}

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 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
 *****/

```

```

package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;
import java.util.Arrays;
import java.util.List;

import org.codehaus.plexus.component.annotations.Requirement;
import org.eclipse.sisu.inject.DeferredClass;
import org.eclipse.sisu.space.LoadedClass;

/**
 * Runtime implementation of Plexus @{ @link Requirement } annotation.
 */
final class RequirementImpl
    implements Requirement
{
    // -----
    // Implementation fields
    // -----

    private final DeferredClass<?> role;

    private final boolean optional;

    private final String hint;

    private final String[] hints;

    // -----
    // Constructors
    // -----

    RequirementImpl( final DeferredClass<?> role, final boolean optional, final List<String> hints )
    {
        if ( null == role || null == hints || hints.contains( null ) )
        {
            throw new IllegalArgumentException( "@Requirement cannot contain null values" );
        }

        this.role = role;
        this.optional = optional;

        final int length = hints.size();
        if ( length == 0 )
        {
            hint = "";
            this.hints = Hints.NO_HINTS;
        }
    }
}

```

```

else if ( length == 1 )
{
    hint = hints.get( 0 );
    this.hints = Hints.NO_HINTS;
}
else
{
    hint = "";
    this.hints = hints.toArray( new String[length] );
}
}

/**
 * For testing purposes only.
 */
@Deprecated
public RequirementImpl( final Class<?> role, final boolean optional, final String... hints )
{
    this( new LoadedClass<Object>( role ), optional, Arrays.asList( hints ) );
}

// -----
// Annotation properties
// -----

public Class<?> role()
{
    return role.load();
}

public boolean optional()
{
    return optional;
}

public String hint()
{
    return hint;
}

public String[] hints()
{
    return hints.clone();
}

// -----
// Standard annotation behaviour
// -----

```



```

@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Requirement )
    {
        final Requirement req = (Requirement) rhs;

        return role().equals( req.role() ) && optional == req.optional() && hint.equals( req.hint() )
            && Arrays.equals( hints, req.hints() );
    }

    return false;
}

@Override
public int hashCode()
{
    return ( 127 * "role".hashCode() ^ role().hashCode() )
        + ( 127 * "optional".hashCode() ^ Boolean.valueOf( optional ).hashCode() )
        + ( 127 * "hint".hashCode() ^ hint.hashCode() ) + ( 127 * "hints".hashCode() ^ Arrays.hashCode( hints ) );
}

@Override
public String toString()
{
    return String.format( "@%s(hints=%s, optional=%b, role=%s, hint=%s)", Requirement.class.getName(),
        Arrays.toString( hints ), Boolean.valueOf( optional ), role(), hint );
}

public Class<? extends Annotation> annotationType()
{
    return Requirement.class;
}
}

```

## 8.210 osgi.cmpn 5.0.0

### 8.210.1 Available under license :

```

/*
 * Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
 *
 */

```

```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

```

```
package org.osgi.application;
```

```
import java.util.Dictionary;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;
```

```

/**
 * {@code ApplicationContext} is the access point for an OSGi-aware application
 * to the features of the OSGi Service Platform. Each application instance will
 * have its own {@code ApplicationContext} instance, which will not be reused
 * after destroying the corresponding application instance.
 *
 * <p>
 * Application instances can obtain their {@code ApplicationContext} using the
 * {@link Framework#getApplicationContext(Object)} method.
 *
 * <p>
 * The lifecycle of an {@code ApplicationContext} instance is bound to the
 * lifecycle of the corresponding application instance. The
 * {@code ApplicationContext} becomes available when the application is started
 * and it is invalidated when the application instance is stopped (i.e. the
 * "stop" method of the application activator object returned). All method calls
 * (except {@link #getApplicationId()} and {@link #getInstanceId()}) to an
 * invalidated context object result an {@code IllegalStateException}.
 *
 * @see org.osgi.application.Framework
 *
 * @author $Id: 51dddaacd80155f9c1b38fed6211a466447d4a $
 */

```

```
public interface ApplicationContext {
```

```

/**
 * Adds the specified {@link ApplicationServiceListener} object to this
 * context application instance's list of listeners. The specified
 * {@code referenceName} is a reference name specified in the descriptor of
 * the corresponding application. The registered {@code listener} will only

```

```

* receive the { @link ApplicationServiceEvent}s related to the referred
* service.
* <p>
* If the { @code listener} was already added, calling this method will
* overwrite the previous registration.
* <p>
*
* @param listener The
*   { @link org.osgi.application.ApplicationServiceListener} to be
*   added. It must not be { @code null}
* @param referenceName the reference name of a service from the descriptor
*   of the corresponding application. It must not be { @code null}.
* @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
* @throws java.lang.NullPointerException If { @code listener} or
*   { @code referenceName} is { @code null}
* @throws java.lang.IllegalArgumentException If there is no service in the
*   application descriptor with the specified { @code referenceName}.
*/
public void addServiceListener(ApplicationServiceListener listener, String referenceName) throws
java.lang.IllegalArgumentException;

/**
* Adds the specified { @link ApplicationServiceListener} object to this
* context application instance's list of listeners. The
* { @code referenceNames} parameter is an array of reference name specified
* in the descriptor of the corresponding application. The registered
* { @code listener} will only receive the { @link ApplicationServiceEvent}s
* related to the referred services.
* <p>
* If the { @code listener} was already added, calling this method will
* overwrite the previous registration.
* <p>
*
* @param listener The
*   { @link org.osgi.application.ApplicationServiceListener} to be
*   added. It must not be { @code null}
* @param referenceNames and array of service reference names from the
*   descriptor of the corresponding application. It must not be
*   { @code null} and it must not be empty.
* @throws java.lang.IllegalStateException If this context application
*   instance has stopped.
* @throws java.lang.NullPointerException If { @code listener} or
*   { @code referenceNames} is { @code null}
* @throws java.lang.IllegalArgumentException If { @code referenceNames}
*   array is empty or it contains unknown references
*/
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws

```

```

java.lang.IllegalArgumentException;

/**
 * Removes the specified
 * { @link org.osgi.application.ApplicationServiceListener } object from this
 * context application instances's list of listeners.
 * <p>
 * If { @code listener } is not contained in this context application
 * instance's list of listeners, this method does nothing.
 *
 * @param listener The
 *     { @link org.osgi.application.ApplicationServiceListener } object to
 *     be removed.
 * @throws java.lang.IllegalStateException If this context application
 *     instance has stopped.
 */
public void removeServiceListener(ApplicationServiceListener listener);

/**
 * This method returns the identifier of the corresponding application
 * instance. This identifier is guaranteed to be unique within the scope of
 * the device.
 *
 * Note: this method can safely be called on an invalid
 * { @code ApplicationContext } as well.
 *
 * @see org.osgi.service.application.ApplicationHandle#getInstanceId()
 *
 * @return the unique identifier of the corresponding application instance
 */
public String getInstanceId();

/**
 * This method return the identifier of the corresponding application type.
 * This identifier is the same for the different instances of the same
 * application but it is different for different application type.
 * <p>
 * Note: this method can safely be called on an invalid
 * { @code ApplicationContext } as well.
 *
 * @see org.osgi.service.application.ApplicationDescriptor#getApplicationId()
 *
 * @return the identifier of the application type.
 */
public String getApplicationId();

/**
 * This method returns the service object for the specified

```

```

* {@code referenceName}. If the cardinality of the reference is 0..n or
* 1..n and multiple services are bound to the reference, the service with
* the highest ranking (as specified in its
* {@link org.osgi.framework.Constants#SERVICE_RANKING} property) is
* returned. If there is a tie in ranking, the service with the lowest
* service ID (as specified in its
* {@link org.osgi.framework.Constants#SERVICE_ID} property); that is, the
* service that was registered first is returned.
*
* @param referenceName The name of a reference as specified in a reference
* element in this context applications's description. It must not be
* {@code null}
* @return A service object for the referenced service or {@code null} if
* the reference cardinality is 0..1 or 0..n and no bound service is
* available.
* @throws java.lang.NullPointerException If {@code referenceName} is
* {@code null}.
* @throws java.lang.IllegalArgumentException If there is no service in the
* application descriptor with the specified {@code referenceName}.
* @throws java.lang.IllegalStateException If this context application
* instance has stopped.
*/
public Object locateService(String referenceName);

/**
* This method returns the service objects for the specified
* {@code referenceName}.
*
* @param referenceName The name of a reference as specified in a reference
* element in this context applications's description. It must not be
* {@code null}.
* @return An array of service object for the referenced service or
* {@code null} if the reference cardinality is 0..1 or 0..n and no
* bound service is available.
* @throws java.lang.NullPointerException If {@code referenceName} is
* {@code null}.
* @throws java.lang.IllegalArgumentException If there is no service in the
* application descriptor with the specified {@code referenceName}.
* @throws java.lang.IllegalStateException If this context application
* instance has stopped.
*/
public Object[] locateServices(String referenceName);

/**
* Returns the startup parameters specified when calling the
* {@code org.osgi.service.application.ApplicationDescriptor#launch(Map)}
* method.
* <p>

```

```

* Startup arguments can be specified as name, value pairs. The name must be
* of type { @link java.lang.String }, which must not be { @code null } or empty
* { @link java.lang.String } ( { @code "" } ), the value can be any object
* including { @code null }.
*
* @return a { @link java.util.Map } containing the startup arguments. It can
*     be { @code null }.
* @throws java.lang.IllegalStateException If this context application
*     instance has stopped.
*/
public Map getStartupParameters();

/**
* Application can query the service properties of a service object it is
* bound to. Application gets bound to a service object when it first
* obtains a reference to the service by calling { @code locateService } or
* { @code locateServices } methods.
*
* @param serviceObject A service object the application is bound to. It
*     must not be null.
* @return The service properties associated with the specified service
*     object.
* @throws NullPointerException if the specified { @code serviceObject } is
*     { @code null }
* @throws IllegalArgumentException if the application is not bound to the
*     specified service object or it is not a service object at all.
* @throws java.lang.IllegalStateException If this context application
*     instance has stopped.
*/
public Map getServiceProperties(Object serviceObject);

/**
* Registers the specified service object with the specified properties
* under the specified class names into the Framework. A
* { @link org.osgi.framework.ServiceRegistration } object is returned. The
* { @link org.osgi.framework.ServiceRegistration } object is for the private
* use of the application registering the service and should not be shared
* with other applications. The registering application is defined to be the
* context application. Bundles can locate the service by using either the
* { @link org.osgi.framework.BundleContext#getServiceReferences(String, String) }
* or { @link org.osgi.framework.BundleContext#getServiceReference(String) }
* method. Other applications can locate this service by using
* { @link #locateService(String) } or { @link #locateServices(String) } method,
* if they declared their dependence on the registered service.
*
* <p>
* An application can register a service object that implements the
* { @link org.osgi.framework.ServiceFactory } interface to have more

```

\* flexibility in providing service objects to other applications or  
 \* bundles.  
 \*

\* <p>  
 \* The following steps are required to register a service:  
 \* <ol>  
 \* <li>If { @code service } is not a { @code ServiceFactory }, an  
 \* { @code IllegalArgumentException } is thrown if { @code service } is not an  
 \* { @code instanceof } all the classes named.</li>  
 \* <li>The Framework adds these service properties to the specified  
 \* { @code Dictionary } (which may be { @code null }): a property named  
 \* { @link org.osgi.framework.Constants#SERVICE\_ID } identifying the  
 \* registration number of the service and a property named  
 \* { @link org.osgi.framework.Constants#OBJECTCLASS } containing all the  
 \* specified classes. If any of these properties have already been specified  
 \* by the registering bundle, their values will be overwritten by the  
 \* Framework.</li>  
 \* <li>The service is added to the Framework service registry and may now be  
 \* used by others.</li>  
 \* <li>A service event of type  
 \* { @link org.osgi.framework.ServiceEvent#REGISTERED } is fired. This event  
 \* triggers the corresponding { @link ApplicationServiceEvent } to be  
 \* delivered to the applications that registered the appropriate listener.</li>  
 \* <li>A { @code ServiceRegistration } object for this registration is  
 \* returned.</li>  
 \* </ol>  
 \*

\* @param clazzes The class names under which the service can be located.  
 \* The class names in this array will be stored in the service's  
 \* properties under the key  
 \* { @link org.osgi.framework.Constants#OBJECTCLASS }. This parameter  
 \* must not be { @code null }.

\* @param service The service object or a { @code ServiceFactory } object.

\* @param properties The properties for this service. The keys in the  
 \* properties object must all be { @code String } objects. See  
 \* { @link org.osgi.framework.Constants } for a list of standard  
 \* service property keys. Changes should not be made to this object  
 \* after calling this method. To update the service's properties the  
 \* { @link org.osgi.framework.ServiceRegistration#setProperties(Dictionary) }  
 \* method must be called. The set of properties may be { @code null }  
 \* if the service has no properties.  
 \*

\* @return A { @link org.osgi.framework.ServiceRegistration } object for use  
 \* by the application registering the service to update the  
 \* service's properties or to unregister the service.  
 \*

\* @throws java.lang.IllegalArgumentException If one of the following is  
 \* true:

```

* <ul>
* <li>{ @code service } is { @code null }.</li><li>{ @code service } is
* not a { @code ServiceFactory } object and is not an instance of all
* the named classes in { @code clazzes }.</li><li>{ @code properties }
* contains case variants of the same key name.</li>
* </ul>
* @throws NullPointerException if { @code clazzes } is { @code null }
*
* @throws java.lang.SecurityException If the caller does not have the
* { @code ServicePermission } to register the service for all the
* named classes and the Java Runtime Environment supports
* permissions.
*
* @throws java.lang.IllegalStateException If this ApplicationContext is no
* longer valid.
*
* @see org.osgi.framework.BundleContext#registerService(java.lang.String[],
* java.lang.Object, java.util.Dictionary)
* @see org.osgi.framework.ServiceRegistration
* @see org.osgi.framework.ServiceFactory
*/
public ServiceRegistration registerService(String[] clazzes, Object service, Dictionary properties);

/**
* Registers the specified service object with the specified properties
* under the specified class name with the Framework.
*
* <p>
* This method is otherwise identical to
* { @link #registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)}
* and is provided as a convenience when { @code service } will only be
* registered under a single class name. Note that even in this case the
* value of the service's { @link Constants#OBJECTCLASS } property will be an
* array of strings, rather than just a single string.
*
* @param clazz The class name under which the service can be located. It
* must not be { @code null }
* @param service The service object or a { @code ServiceFactory } object.
* @param properties The properties for this service.
*
* @return A { @code ServiceRegistration } object for use by the application
* registering the service to update the service's properties or to
* unregister the service.
*
* @throws java.lang.IllegalArgumentException If one of the following is
* true:
* <ul>
* <li>{ @code service } is { @code null }.</li><li>{ @code service } is

```



```

* not a {@code ServiceFactory} object and is not an instance of the
* named class in {@code clazz}.</li><li>{@code properties} contains
* case variants of the same key name.</li>
* </ul>
* @throws NullPointerException if {@code clazz} is {@code null}
*
* @throws java.lang.SecurityException If the caller does not have the
* {@code ServicePermission} to register the service the named class
* and the Java Runtime Environment supports permissions.
*
* @throws java.lang.IllegalStateException If this ApplicationContext is no
* longer valid.
* @see #registerService(java.lang.String[], java.lang.Object,
* java.util.Dictionary)
*/
public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);
}
/*
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*/

package org.osgi.application;

import org.osgi.framework.ServiceEvent;
import org.osgi.framework.ServiceReference;

/**
* An event from the Framework describing a service lifecycle change.
* <p>
* {@code ApplicationServiceEvent} objects are delivered to a
* {@code ApplicationServiceListener} objects when a change occurs in this
* service's lifecycle. The delivery of an {@code ApplicationServiceEvent} is
* always triggered by a {@link org.osgi.framework.ServiceEvent}.
* {@code ApplicationServiceEvent} extends the content of {@code ServiceEvent}
* with the service object the event is referring to as applications has no
* means to find the corresponding service object for a

```

```

* {@link org.osgi.framework.ServiceReference}. A type code is used to identify
* the event type for future extendability. The available type codes are defined
* in {@link org.osgi.framework.ServiceEvent}.
*
* <p>
* OSGi Alliance reserves the right to extend the set of types.
*
* @see org.osgi.framework.ServiceEvent
* @see ApplicationServiceListener
*
* @author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9 $
*/
public class ApplicationServiceEvent extends ServiceEvent {

    private static final long serialVersionUID = -4762149286971897323L;
    final Object serviceObject;

    /**
     * Creates a new application service event object.
     *
     * @param type The event type. Available type codes are defines in
     *     {@link org.osgi.framework.ServiceEvent}
     * @param reference A {@code ServiceReference} object to the service that
     *     had a lifecycle change. This reference will be used as the
     *     {@code source} in the {@link java.util.EventObject} baseclass,
     *     therefore, it must not be null.
     * @param serviceObject The service object bound to this application
     *     instance. It can be {@code null} if this application is not bound
     *     to this service yet.
     * @throws IllegalArgumentException if the specified {@code reference} is
     *     null.
     */
    public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
        super(type, reference);
        this.serviceObject = serviceObject;
    }

    /**
     * This method returns the service object of this service bound to the
     * listener application instance. A service object becomes bound to the
     * application when it first obtains a service object reference to that
     * service by calling the {@code ApplicationContext.locateService} or
     * {@code locateServices} methods. If the application is not bound to the
     * service yet, this method returns {@code null}.
     *
     * @return the service object bound to the listener application or
     *     {@code null} if it isn't bound to this service yet.
     */
}

```

```

public Object getServiceObject() {
    return this.serviceObject;
}

}

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 * limitations under the License.
 */

package org.osgi.application;

import java.util.EventListener;
import org.osgi.framework.*;

/**
 * An {@code ApplicationServiceEvent} listener. When a {@code ServiceEvent} is
 * fired, it is converted to an {@code ApplicationServiceEvent} and it is
 * synchronously delivered to an {@code ApplicationServiceListener}.
 *
 * <p>
 * {@code ApplicationServiceListener} is a listener interface that may be
 * implemented by an application developer.
 *
 * <p>
 * An {@code ApplicationServiceListener} object is registered with the Framework
 * using the {@code ApplicationContext.addServiceListener} method.
 * {@code ApplicationServiceListener} objects are called with an
 * {@code ApplicationServiceEvent} object when a service is registered,
 * modified, or is in the process of unregistering.
 *
 * <p>
 * {@code ApplicationServiceEvent} object delivery to
 * {@code ApplicationServiceListener} objects is filtered by the filter
 * specified when the listener was registered. If the Java Runtime Environment
 * supports permissions, then additional filtering is done.
 * {@code ApplicationServiceEvent} objects are only delivered to the listener if
 * the application which defines the listener object's class has the appropriate

```

```

* {@code ServicePermission} to get the service using at least one of the named
* classes the service was registered under, and the application specified its
* dependence on the corresponding service in the application metadata.
*
* <p>
* {@code ApplicationServiceEvent} object delivery to
* {@code ApplicationServiceListener} objects is further filtered according to
* package sources as defined in
* {@link ServiceReference#isAssignableTo(Bundle, String)}.
*
* @author $Id: 406895df9d8ba1a250de7fb9d49da1d0a18abc5b $
* @see ApplicationServiceEvent
* @see ServicePermission
*/
public interface ApplicationServiceListener extends EventListener {
/**
* Receives notification that a service has had a lifecycle change.
*
* @param event The {@code ApplicationServiceEvent} object.
*/
public void serviceChanged(ApplicationServiceEvent event);
}
/*
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* limitations under the License.
*/

package org.osgi.service.application;

import java.security.Permission;
import java.util.Hashtable;
import java.util.StringTokenizer;
import java.util.Vector;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

```

```

/**
 * This class implements permissions for manipulating applications and their
 * instances.
 * <P>
 * ApplicationAdminPermission can be targeted to applications that matches the
 * specified filter.
 * <P>
 * ApplicationAdminPermission may be granted for different actions:
 * { @code lifecycle}, { @code schedule} and { @code lock}. The permission
 * { @code schedule} implies the permission { @code lifecycle}.
 *
 * @author $Id: c8c799ae29ff5bb6095e22d201b47a3445eb42cb $
 */
public class ApplicationAdminPermission extends Permission {
    private static final long serialVersionUID = 1L;

    /**
     * Allows the lifecycle management of the target applications.
     */
    public static final String LIFECYCLE_ACTION = "lifecycle";

    /**
     * Allows scheduling of the target applications. The permission to schedule
     * an application implies that the scheduler can also manage the lifecycle
     * of that application i.e. { @code schedule} implies { @code lifecycle}
     */
    public static final String SCHEDULE_ACTION = "schedule";

    /**
     * Allows setting/unsetting the locking state of the target applications.
     */
    public static final String LOCK_ACTION = "lock";

    private ApplicationDescriptor applicationDescriptor;

    /**
     * Constructs an ApplicationAdminPermission. The { @code filter} specifies
     * the target application. The { @code filter} is an LDAP-style filter, the
     * recognized properties are { @code signer} and { @code pid}. The pattern
     * specified in the { @code signer} is matched with the Distinguished Name
     * chain used to sign the application. Wildcards in a DN are not matched
     * according to the filter string rules, but according to the rules defined
     * for a DN chain. The attribute { @code pid} is matched with the PID of the
     * application according to the filter string rules.
     * <p>
     * If the { @code filter} is { @code null} then it matches { @code "*"}. If
     * { @code actions} is { @code "*" } then it identifies all the possible
     * actions.

```

```

*
* @param filter filter to identify application. The value { @code null } is
*   equivalent to { @code "*" } and it indicates "all application".
* @param actions comma-separated list of the desired actions granted on the
*   applications or "*" means all the actions. It must not be
*   { @code null }. The order of the actions in the list is not
*   significant.
* @throws InvalidSyntaxException is thrown if the specified { @code filter }
*   is not syntactically correct.
*
* @exception NullPointerException is thrown if the actions parameter is
*   { @code null }
*
* @see ApplicationDescriptor
* @see org.osgi.framework.AdminPermission
*/
public ApplicationAdminPermission(String filter, String actions) throws InvalidSyntaxException {
    super(filter == null ? "*" : filter);

    if (filter == null)
        filter = "*";

    if (actions == null)
        throw new NullPointerException("Action string cannot be null!");

    this.applicationDescriptor = null;
    this.filter = (filter == null ? "*" : filter);
    this.actions = actions;

    if (!filter.equals("*") && !filter.equals("<<SELF>>"))
        FrameworkUtil.createFilter(this.filter); // check if the filter is
            // valid
    init();
}

/**
* This constructor should be used when creating
* { @code ApplicationAdminPermission } instance for { @code checkPermission }
* call.
*
* @param application the target of the operation, it must not be
*   { @code null }
* @param actions the required operation. it must not be { @code null }
* @throws NullPointerException if any of the arguments is null.
*/
public ApplicationAdminPermission(ApplicationDescriptor application, String actions) {
    super(application.getId());
}

```

```

if (application == null || actions == null)
    throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

this.filter = application.getApplicationId();
this.applicationDescriptor = application;
this.actions = actions;

init();
}

/**
 * This method can be used in the {@link java.security.ProtectionDomain}
 * implementation in the {@code implies} method to insert the application ID
 * of the current application into the permission being checked. This
 * enables the evaluation of the {@code <<SELF>>} pseudo targets.
 *
 * @param applicationId the ID of the current application.
 * @return the permission updated with the ID of the current application
 */
public ApplicationAdminPermission setCurrentApplicationId(String applicationId) {
    ApplicationAdminPermission newPerm = null;

    if (this.applicationDescriptor == null) {
        try {
            newPerm = new ApplicationAdminPermission(this.filter, this.actions);
        } catch (InvalidSyntaxException e) {
            throw new RuntimeException(e); /* this can never happen */
        }
    } else
        newPerm = new ApplicationAdminPermission(this.applicationDescriptor, this.actions);

    newPerm.applicationID = applicationId;

    return newPerm;
}

/**
 * Checks if the specified {@code permission} is implied by this permission.
 * The method returns true under the following conditions:
 * <ul>
 * <li>This permission was created by specifying a filter (see
 * {@link #ApplicationAdminPermission(String, String)}</li>
 * <li>The implied {@code otherPermission} was created for a particular
 * {@link ApplicationDescriptor} (see
 * {@link #ApplicationAdminPermission(ApplicationDescriptor, String)}</li>
 * <li>The {@code filter} of this permission matches the
 * {@code ApplicationDescriptor} specified in the {@code otherPermission}.
 * If the filter in this permission is the {@code <<SELF>>} pseudo target,

```

```

* then the currentApplicationId set in the { @code otherPermission } is
* compared to the application Id of the target
* { @code ApplicationDescriptor}.</li>
* <li>The list of permitted actions in this permission contains all actions
* required in the { @code otherPermission}</li>
* </ul>
* Otherwise the method returns false.
*
* @param otherPermission the implied permission
* @return true if this permission implies the { @code otherPermission},
*       false otherwise.
*/
public boolean implies(Permission otherPermission) {
    if (otherPermission == null)
        return false;

    if (!(otherPermission instanceof ApplicationAdminPermission))
        return false;

    ApplicationAdminPermission other = (ApplicationAdminPermission) otherPermission;

    if (!filter.equals("*")) {
        if (other.applicationDescriptor == null)
            return false;

        if (filter.equals("<<SELF>>")) {
            if (other.applicationID == null)
                return false; /* it cannot be, this might be a bug */

            if (!other.applicationID.equals(other.applicationDescriptor.getApplicationId()))
                return false;
        } else {
            Hashtable props = new Hashtable();
            props.put("pid", other.applicationDescriptor.getApplicationId());
            props.put("signer", new SignerWrapper(other.applicationDescriptor));

            Filter flt = getFilter();
            if (flt == null)
                return false;

            if (!flt.match(props))
                return false;
        }
    }

    if (!actionsVector.containsAll(other.actionsVector))
        return false;
}

```



```

return true;
}

public boolean equals(Object with) {
if (with == null || !(with instanceof ApplicationAdminPermission))
return false;

ApplicationAdminPermission other = (ApplicationAdminPermission) with;

// Compare actions:
if (other.actionsVector.size() != actionsVector.size())
return false;

for (int i = 0; i != actionsVector.size(); i++)
if (!other.actionsVector.contains(actionsVector.get(i)))
return false;

return equal(this.filter, other.filter) && equal(this.applicationDescriptor, other.applicationDescriptor) &&
equal(this.applicationID, other.applicationID);
}

/**
 * Compares parameters for equality. If both object are null, they are
 * considered equal.
 *
 * @param a object to compare
 * @param b other object to compare
 * @return true if both objects are equal or both are null
 */
private static boolean equal(Object a, Object b) {
// This equation is true if both references are null or both point
// to the same object. In both cases they are considered as equal.
if (a == b) {
return true;
}

return a.equals(b);
}

public int hashCode() {
int hc = 0;
for (int i = 0; i != actionsVector.size(); i++)
hc ^= ((String) actionsVector.get(i)).hashCode();
hc ^= (null == this.filter) ? 0 : this.filter.hashCode();
hc ^= (null == this.applicationDescriptor) ? 0 : this.applicationDescriptor.hashCode();
hc ^= (null == this.applicationID) ? 0 : this.applicationID.hashCode();
return hc;
}

```

```

/**
 * Returns the actions of this permission.
 *
 * @return the actions specified when this permission was created
 */
public String getActions() {
    return actions;
}

private String    applicationID;

private static final Vector ACTIONS = new Vector();
private Vector    actionsVector;
private final String filter;
private final String actions;
private Filter    appliedFilter = null;

static {
    ACTIONS.add(LIFECYCLE_ACTION);
    ACTIONS.add(SCHEDULE_ACTION);
    ACTIONS.add(LOCK_ACTION);
}

private static Vector actionsVector(String actions) {
    Vector v = new Vector();
    StringTokenizer t = new StringTokenizer(actions.toUpperCase(), ",");
    while (t.hasMoreTokens()) {
        String action = t.nextToken().trim();
        v.add(action.toLowerCase());
    }

    if (v.contains(SCHEDULE_ACTION) && !v.contains(LIFECYCLE_ACTION))
        v.add(LIFECYCLE_ACTION);

    return v;
}

private static class SignerWrapper extends Object {
    private String    pattern;
    private ApplicationDescriptor appDesc;

    /**
     * @param pattern
     */
    public SignerWrapper(String pattern) {
        this.pattern = pattern;
    }
}

```

```

SignerWrapper(ApplicationDescriptor appDesc) {
    this.appDesc = appDesc;
}

public boolean equals(Object o) {
    if (!(o instanceof SignerWrapper))
        return false;
    SignerWrapper other = (SignerWrapper) o;
    ApplicationDescriptor matchAppDesc = appDesc != null ? appDesc : other.appDesc;
    String matchPattern = appDesc != null ? other.pattern : pattern;
    return matchAppDesc.matchDNChain(matchPattern);
}

private void init() {
    actionsVector = actionsVector(actions);

    if (actions.equals("*"))
        actionsVector = actionsVector(LIFECYCLE_ACTION + "," + SCHEDULE_ACTION + "," + LOCK_ACTION);
    else
        if (!ACTIONS.containsAll(actionsVector))
            throw new IllegalArgumentException("Illegal action!");

    applicationID = null;
}

private Filter getFilter() {
    if (appliedFilter == null) {
        try {
            appliedFilter = FrameworkUtil.createFilter(filter);
        } catch (InvalidSyntaxException e) {
            // we will return null
        }
    }
    return appliedFilter;
}

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*/
```

```
package org.osgi.service.application;
```

```
import java.lang.reflect.InvocationTargetException;  
import java.lang.reflect.Method;  
import java.security.AccessController;  
import java.security.PrivilegedAction;  
import java.security.PrivilegedExceptionAction;  
import java.util.Map;  
import org.osgi.framework.Constants;  
import org.osgi.framework.InvalidSyntaxException;
```

```
/**  
 * An OSGi service that represents an installed application and stores  
 * information about it. The application descriptor can be used for instance  
 * creation.  
 *  
 * @author $Id: 991343b4701de961cbb87126ededcc00685811f0 $  
 */
```

```
public abstract class ApplicationDescriptor {  
    /*  
     * NOTE: An implementor may also choose to replace this class in their  
     * distribution with a class that directly interfaces with the  
     * org.osgi.service.application implementation. This replacement class MUST  
     * NOT alter the public/protected signature of this class.  
     */  
  
    /**  
     * The property key for the localized name of the application.  
     */  
    public static final String APPLICATION_NAME = "application.name";  
  
    /**  
     * The property key for the localized icon of the application.  
     */  
    public static final String APPLICATION_ICON = "application.icon";  
  
    /**  
     * The property key for the unique identifier (PID) of the application.  
     */  
    public static final String APPLICATION_PID = Constants.SERVICE_PID;
```

```

/**
 * The property key for the version of the application.
 */
public static final String APPLICATION_VERSION = "application.version";

/**
 * The property key for the name of the application vendor.
 */
public static final String APPLICATION_VENDOR = Constants.SERVICE_VENDOR;

/**
 * The property key for the visibility property of the application.
 */
public static final String APPLICATION_VISIBLE = "application.visible";

/**
 * The property key for the launchable property of the application.
 */
public static final String APPLICATION_LAUNCHABLE = "application.launchable";

/**
 * The property key for the locked property of the application.
 */
public static final String APPLICATION_LOCKED = "application.locked";

/**
 * The property key for the localized description of the application.
 */
public static final String APPLICATION_DESCRIPTION = "application.description";

/**
 * The property key for the localized documentation of the application.
 */
public static final String APPLICATION_DOCUMENTATION = "application.documentation";

/**
 * The property key for the localized copyright notice of the application.
 */
public static final String APPLICATION_COPYRIGHT = "application.copyright";

/**
 * The property key for the localized license of the application.
 */
public static final String APPLICATION_LICENSE = "application.license";

/**
 * The property key for the application container of the application.
 */

```

```

public static final String APPLICATION_CONTAINER = "application.container";

/**
 * The property key for the location of the application.
 */
public static final String APPLICATION_LOCATION = "application.location";

private final String pid;

/**
 * Constructs the {@code ApplicationDescriptor}.
 *
 * @param applicationId The identifier of the application. Its value is also
 *     available as the {@code service.pid} service property of this
 *     {@code ApplicationDescriptor} service. This parameter must not be
 *     {@code null}.
 * @throws NullPointerException if the specified {@code applicationId} is
 *     null.
 */
protected ApplicationDescriptor(String applicationId) {
    if (null == applicationId) {
        throw new NullPointerException("Application ID must not be null!");
    }

    this.pid = applicationId;
    try {
        delegate = new Delegate();
        delegate.setApplicationDescriptor(this, applicationId);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
    }
}

/**
 * Returns the identifier of the represented application.
 *
 * @return the identifier of the represented application
 */
public final String getApplicationId() {
    return pid;
}

/**
 * This method verifies whether the specified {@code pattern} matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.

```

```

* <p>
* The { @code pattern } must adhere to the syntax defined in
* { @link org.osgi.service.application.ApplicationAdminPermission } for
* signer attributes.
* <p>
* This method is used by
* { @link ApplicationAdminPermission#implies(java.security.Permission) }
* method to match target { @code ApplicationDescriptor } and filter.
*
* @param pattern a pattern for a chain of Distinguished Names. It must not
*     be null.
* @return { @code true } if the specified pattern matches at least one of the
*     certificate chains used to authenticate this application
* @throws NullPointerException if the specified { @code pattern } is null.
* @throws IllegalStateException if the application descriptor was
*     unregistered
*/
public abstract boolean matchDNChain(String pattern);

/**
* Returns the properties of the application descriptor as key-value pairs.
* The return value contains the locale aware and unaware properties as
* well. The returned { @code Map } will include the service properties of
* this { @code ApplicationDescriptor } as well.
* <p>
* This method will call the { @code getPropertiesSpecific } method to enable
* the container implementation to insert application model and/or container
* implementation specific properties.
* <p>
* The returned { @link java.util.Map } will contain the standard OSGi service
* properties as well (e.g. service.id, service.vendor etc.) and specialized
* application descriptors may offer further service properties. The
* returned Map contains a snapshot of the properties. It will not reflect
* further changes in the property values nor will the update of the Map
* change the corresponding service property.
*
* @param locale the locale string, it may be null, the value null means the
*     default locale. If the provided locale is the empty String (
*     { @code "" }) then raw (non-localized) values are returned.
*
* @return copy of the service properties of this application descriptor
*     service, according to the specified locale. If locale is null
*     then the default locale's properties will be returned. (Since
*     service properties are always exist it cannot return null.)
*
* @throws IllegalStateException if the application descriptor is
*     unregistered
*/

```

```

public final Map getProperties(String locale) {
    Map props = getPropertiesSpecific(locale);

    /* currently the ApplicationDescriptor manages the load/save of locking */
    boolean isLocked = delegate.isLocked(); // the real locking state
    Boolean containerLocked = (Boolean) props.remove(APPLICATION_LOCKED);
    if (containerLocked != null && containerLocked.booleanValue() != isLocked) {
        try {
            if (isLocked) /* if the container's information is not correct */
                lockSpecific(); /*
                    * about the locking state (after loading
                    * the lock states)
                    */
            else
                unlockSpecific();
        } catch (Exception e) {
        }
    }
    /*
    * replace the container's lock with the application model's lock,
    * that's the correct
    */
    props.put(APPLICATION_LOCKED, new Boolean(isLocked));
    return props;
}

/**
 * Container implementations can provide application model specific and/or
 * container implementation specific properties via this method.
 *
 * Localizable properties must be returned localized if the provided
 * {@code locale} argument is not the empty String. The value {@code null}
 * indicates to use the default locale, for other values the specified
 * locale should be used.
 *
 * The returned {@link java.util.Map} must contain the standard OSGi service
 * properties as well (e.g. service.id, service.vendor etc.) and specialized
 * application descriptors may offer further service properties. The
 * returned {@code Map} contains a snapshot of the properties. It will not
 * reflect further changes in the property values nor will the update of the
 * Map change the corresponding service property.
 *
 * @param locale the locale to be used for localizing the properties. If
 *     {@code null} the default locale should be used. If it is the empty
 *     String ({@code ""}) then raw (non-localized) values should be
 *     returned.
 *
 * @return the application model specific and/or container implementation

```



```

*     specific properties of this application descriptor.
*
* @throws IllegalStateException if the application descriptor is
*     unregistered
*/
protected abstract Map getPropertiesSpecific(String locale);

/**
* Launches a new instance of an application. The { @code args } parameter
* specifies the startup parameters for the instance to be launched, it may
* be null.
* <p>
* The following steps are made:
* <ul>
* <li>Check for the appropriate permission.</li>
* <li>Check the locking state of the application. If locked then throw an
* { @link ApplicationException } with the reason code
* { @link ApplicationException#APPLICATION_LOCKED }.</li>
* <li>Calls the { @code launchSpecific() } method to create and start an
* application instance.</li>
* <li>Returns the { @code ApplicationHandle } returned by the
* launchSpecific().</li>
* </ul>
* The caller has to have ApplicationAdminPermission(applicationPID,
* "launch") in order to be able to perform this operation.
* <p>
* The { @code Map } argument of the launch method contains startup arguments
* for the application. The keys used in the Map must be non-null, non-empty
* { @code String } objects. They can be standard or application specific.
* OSGi defines the { @code org.osgi.triggeringevent } key to be used to pass
* the triggering event to a scheduled application, however in the future it
* is possible that other well-known keys will be defined. To avoid unwanted
* clashes of keys, the following rules should be applied:
* <ul>
* <li>The keys starting with the dash (-) character are application
* specific, no well-known meaning should be associated with them.</li>
* <li>Well-known keys should follow the reverse domain name based naming.
* In particular, the keys standardized in OSGi should start with
* { @code org.osgi. }.</li>
* </ul>
* <p>
* The method is synchronous, it return only when the application instance
* was successfully started or the attempt to start it failed.
* <p>
* This method never returns { @code null }. If launching an application
* fails, the appropriate exception is thrown.
*
* @param arguments Arguments for the newly launched application, may be

```

```

*    null
*
* @return the registered ApplicationHandle, which represents the newly
*    launched application instance. Never returns {@code null}.
*
* @throws SecurityException if the caller doesn't have "lifecycle"
*    ApplicationAdminPermission for the application.
* @throws ApplicationException if starting the application failed
* @throws IllegalStateException if the application descriptor is
*    unregistered
* @throws IllegalArgumentException if the specified {@code Map} contains
*    invalid keys (null objects, empty {@code String} or a key that is
*    not {@code String})
*/
public final ApplicationHandle launch(Map arguments) throws ApplicationException {
    try {
        delegate.launch(arguments);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    if (!isLaunchableSpecific())
        throw new ApplicationException(ApplicationException.APPLICATION_NOT_LAUNCHABLE, "Cannot launch
the application!");
    try {
        return launchSpecific(arguments);
    } catch (IllegalStateException ise) {
        throw ise;
    } catch (SecurityException se) {
        throw se;
    } catch (ApplicationException ae) {
        throw ae;
    } catch (Exception t) {
        throw new ApplicationException(ApplicationException.APPLICATION_INTERNAL_ERROR, t);
    }
}

/**
* Called by launch() to create and start a new instance in an application
* model specific way. It also creates and registers the application handle
* to represent the newly created and started instance and registers it.
* The method is synchronous, it return only when the application instance
* was successfully started or the attempt to start it failed.
* <p>
* This method must not return {@code null}. If launching the application
* failed, and exception must be thrown.
*

```

```

* @param arguments the startup parameters of the new application instance,
*     may be null
*
* @return the registered application model specific application handle for
*     the newly created and started instance.
*
* @throws IllegalStateException if the application descriptor is
*     unregistered
* @throws Exception if any problem occurs.
*/
protected abstract ApplicationHandle launchSpecific(Map arguments) throws Exception;

/**
* This method is called by launch() to verify that according to the
* container, the application is launchable.
*
* @return true, if the application is launchable according to the
*     container, false otherwise.
*
* @throws IllegalStateException if the application descriptor is
*     unregistered
*/
protected abstract boolean isLaunchableSpecific();

/**
* Schedules the application at a specified event. Schedule information
* should not get lost even if the framework or the device restarts so it
* should be stored in a persistent storage. The method registers a
* {@link ScheduledApplication} service in Service Registry, representing
* the created schedule.
* <p>
* The {@code Map} argument of the method contains startup arguments for the
* application. The keys used in the Map must be non-null, non-empty
* {@code String} objects. The argument values must be of primitive types,
* wrapper classes of primitive types, {@code String} or arrays or
* collections of these.
* <p>
* The created schedules have a unique identifier within the scope of this
* {@code ApplicationDescriptor}. This identifier can be specified in the
* {@code scheduleId} argument. If this argument is {@code null}, the
* identifier is automatically generated.
*
* @param scheduleId the identifier of the created schedule. It can be
*     {@code null}, in this case the identifier is automatically
*     generated.
* @param arguments the startup arguments for the scheduled application, may
*     be null
* @param topic specifies the topic of the triggering event, it may contain

```

```

*   a trailing asterisk as wildcard, the empty string is treated as
*   "*", must not be null
* @param eventFilter specifies and LDAP filter to filter on the properties
*   of the triggering event, may be null
* @param recurring if the recurring parameter is false then the application
*   will be launched only once, when the event firstly occurs. If the
*   parameter is true then scheduling will take place for every event
*   occurrence; i.e. it is a recurring schedule
*
* @return the registered scheduled application service
*
* @throws NullPointerException if the topic is { @code null}
* @throws InvalidSyntaxException if the specified { @code eventFilter} is
*   not syntactically correct
* @throws ApplicationException if the schedule couldn't be created. The
*   possible error codes are
*   <ul>
*   <li>
*   { @link ApplicationException#APPLICATION_DUPLICATE_SCHEDULE_ID} if
*   the specified { @code scheduleId} is already used for this
*   { @code ApplicationDescriptor}</li><li>
*   { @link ApplicationException#APPLICATION_SCHEDULING_FAILED} if the
*   scheduling failed due to some internal reason (e.g. persistent
*   storage error).</li> <li>
*   { @link ApplicationException#APPLICATION_INVALID_STARTUP_ARGUMENT}
*   if the specified startup argument doesn't satisfy the type or
*   value constraints of startup arguments.</li>
*   </ul>
* @throws SecurityException if the caller doesn't have "schedule"
*   ApplicationAdminPermission for the application.
* @throws IllegalStateException if the application descriptor is
*   unregistered
* @throws IllegalArgumentException if the specified { @code Map} contains
*   invalid keys (null objects, empty { @code String} or a key that is
*   not { @code String})
*/
public final ScheduledApplication schedule(String scheduleId, Map arguments, String topic, String eventFilter,
boolean recurring) throws InvalidSyntaxException, ApplicationException {
    isLaunchableSpecific(); // checks if the ApplicationDescriptor was
        // already unregistered
    try {
        return delegate.schedule(scheduleId, arguments, topic, eventFilter, recurring);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
}

```

```

/**
 * Sets the lock state of the application. If an application is locked then
 * launching a new instance is not possible. It does not affect the already
 * launched instances.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 *     ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
public final void lock() {
    try {
        delegate.lock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    lockSpecific();
}

```

```

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been locked and it should update the
 * {@code application.locked} service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
protected abstract void lockSpecific();

```

```

/**
 * Unsets the lock state of the application.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 *     ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
public final void unlock() {
    try {
        delegate.unlock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
}

```

```

unlockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been unlocked and it should update the
 * {@code application.locked} service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *     unregistered
 */
protected abstract void unlockSpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationDescriptor and delegate method
 * calls to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationDescriptor;
    static Method isLocked;
    static Method lock;
    static Method unlock;
    static Method schedule;
    static Method launch;

    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationDescriptor");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationDescriptor property must be set");
                }
            }
        });

        try {
            implementation = Class.forName(cName);
        } catch (ClassNotFoundException e) {
            throw new NoClassDefFoundError(e.toString());
        }

        try {
            setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[]
{ApplicationDescriptor.class, String.class});
            isLocked = implementation.getMethod("isLocked", new Class[] {});

```

```

lock = implementation.getMethod("lock", new Class[] {});
unlock = implementation.getMethod("unlock", new Class[] {});
schedule = implementation.getMethod("schedule", new Class[] {String.class, Map.class, String.class, String.class,
boolean.class});
launch = implementation.getMethod("launch", new Class[] {Map.class});
} catch (NoSuchMethodException e) {
throw new NoSuchMethodError(e.toString());
}

return null;
}
});
}

```

Object target;

```

Delegate() throws Exception {
target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
public Object run() throws Exception {
return implementation.newInstance();
}
});
}

```

```

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
try {
try {
setApplicationDescriptor.invoke(target, new Object[] {d, pid});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}
}

```

```

boolean isLocked() {
try {
try {
return ((Boolean) isLocked.invoke(target, new Object[] {})).booleanValue();
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {

```

```

    throw e;
  } catch (RuntimeException e) {
    throw e;
  } catch (Throwable e) {
    throw new RuntimeException(e);
  }
}

void lock() {
  try {
    try {
      lock.invoke(target, new Object[] {});
    } catch (InvocationTargetException e) {
      throw e.getTargetException();
    }
  } catch (Error e) {
    throw e;
  } catch (RuntimeException e) {
    throw e;
  } catch (Throwable e) {
    throw new RuntimeException(e);
  }
}

```

```

void unlock() {
  try {
    try {
      unlock.invoke(target, new Object[] {});
    } catch (InvocationTargetException e) {
      throw e.getTargetException();
    }
  } catch (Error e) {
    throw e;
  } catch (RuntimeException e) {
    throw e;
  } catch (Throwable e) {
    throw new RuntimeException(e);
  }
}

```

ScheduledApplication schedule(String scheduleId, Map args, String topic, String filter, boolean recurs) throws InvalidSyntaxException, ApplicationException {

```

  try {
    try {
      return (ScheduledApplication) schedule.invoke(target, new Object[] { scheduleId, args, topic, filter, new
Boolean(recurs)});
    } catch (InvocationTargetException e) {
      throw e.getTargetException();
    }
  }
}

```



```

    }
    } catch (InvalidSyntaxException e) {
        throw e;
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

```

```

void launch(Map arguments) throws ApplicationException {
    try {
        try {
            launch.invoke(target, new Object[] {arguments});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
}
}

```

```

}
/*
 * Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.

```

```

*/

package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *
 * { @code ApplicationException } object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * { @code ApplicationException }s should not be created by developers.
 * { @code ApplicationException }s are associated with an error code. This code
 * describes the type of problem reported in this exception. The possible codes
 * are:
 * <ul>
 * <li> { @link #APPLICATION_LOCKED } - The application couldn't be launched
 * because it is locked.</li>
 * <li> { @link #APPLICATION_NOT_LAUNCHABLE } - The application is not in
 * launchable state.</li>
 * <li> { @link #APPLICATION_INTERNAL_ERROR } - An exception was thrown by the
 * application or its container during launch.</li>
 * <li> { @link #APPLICATION_SCHEDULING_FAILED } - The scheduling of an application
 * failed.</li>
 * <li> { @link #APPLICATION_DUPLICATE_SCHEDULE_ID } - The application scheduling
 * failed because the specified identifier is already in use.</li>
 * <li> { @link #APPLICATION_EXITVALUE_NOT_AVAILABLE } - The exit value is not
 * available for an application instance because the instance has not
 * terminated.</li>
 * <li> { @link #APPLICATION_INVALID_STARTUP_ARGUMENT } - One of the specified
 * startup arguments is invalid, for example its type is not permitted.</li>
 * </ul>
 *
 * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
 */
public class ApplicationException extends Exception {
    private static final long serialVersionUID = -7173190453622508207L;
    private final int    errorCode;

    /**
     * The application couldn't be launched because it is locked.
     */
    public static final int APPLICATION_LOCKED = 0x01;

    /**
     * The application is not in launchable state, it's
     * { @link ApplicationDescriptor#APPLICATION_LAUNCHABLE } attribute is false.
     */
    public static final int APPLICATION_NOT_LAUNCHABLE = 0x02;

```

```

/**
 * An exception was thrown by the application or the corresponding container
 * during launch. The exception is available from {@code getCause()}.
 */
public static final int APPLICATION_INTERNAL_ERROR = 0x03;

/**
 * The application schedule could not be created due to some internal error
 * (for example, the schedule information couldn't be saved due to some
 * storage error).
 */
public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

/**
 * The application scheduling failed because the specified identifier is
 * already in use.
 */
public static final int APPLICATION_DUPLICATE_SCHEDULE_ID = 0x05;

/**
 * The exit value is not available for an application instance because the
 * instance has not terminated.
 *
 * @since 1.1
 */
public static final int APPLICATION_EXITVALUE_NOT_AVAILABLE = 0x06;

/**
 * One of the specified startup arguments is invalid, for example its type
 * is not permitted.
 *
 * @since 1.1
 */
public static final int APPLICATION_INVALID_STARTUP_ARGUMENT = 0x07;

/**
 * Creates an {@code ApplicationException} with the specified error code.
 *
 * @param errorCode The code of the error
 */
public ApplicationException(int errorCode) {
    super();
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.

```

```

*
* @param errorCode The code of the error
* @param cause The cause of this exception.
*/
public ApplicationException(int errorCode, Throwable cause) {
    super(cause);
    this.errorCode = errorCode;
}

/**
 * Creates an { @code ApplicationException } with the specified error code.
 *
 * @param errorCode The code of the error
 * @param message The associated message
 */
public ApplicationException(int errorCode, String message) {
    super(message);
    this.errorCode = errorCode;
}

/**
 * Creates a { @code ApplicationException } that wraps another exception.
 *
 * @param errorCode The code of the error
 * @param message The associated message.
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, String message, Throwable cause) {
    super(message, cause);
    this.errorCode = errorCode;
}

/**
 * Returns the cause of this exception or { @code null } if no cause was set.
 *
 * @return The cause of this exception or { @code null } if no cause was set.
 */
public Throwable getCause() {
    return super.getCause();
}

/**
 * Returns the error code associated with this exception.
 *
 * @return The error code of this exception.
 */
public int getErrorCode() {
    return errorCode;
}

```

```

}
}
/*
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package org.osgi.service.application;
```

```
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import org.osgi.framework.Constants;
```

```
/**
 * ApplicationHandle is an OSGi service interface which represents an instance
 * of an application. It provides the functionality to query and manipulate the
 * lifecycle state of the represented application instance. It defines constants
 * for the lifecycle states.
 *

```

```
 * @author $Id: 4a9c1d6258e03ce4eb1a26748bccf83661ad8244 $
 */
```

```
public abstract class ApplicationHandle {
```

```
    /*
     * NOTE: An implementor may also choose to replace this class in their
     * distribution with a class that directly interfaces with the
     * org.osgi.service.application implementation. This replacement class MUST
     * NOT alter the public/protected signature of this class.
     */
```

```
/**
 * The property key for the unique identifier (PID) of the application
 * instance.
 */
```

```
public static final String APPLICATION_PID = Constants.SERVICE_PID;
```

```

/**
 * The property key for the pid of the corresponding application descriptor.
 */
public final static String APPLICATION_DESCRIPTOR = "application.descriptor";

/**
 * The property key for the state of this application instance.
 */
public final static String APPLICATION_STATE = "application.state";

/**
 * The property key for the supports exit value property of this application
 * instance.
 *
 * @since 1.1
 */
public final static String APPLICATION_SUPPORTS_EXITVALUE = "application.supports.exitvalue";

/**
 * The application instance is running. This is the initial state of a newly
 * created application instance.
 */
public final static String RUNNING = "RUNNING";

/**
 * The application instance is being stopped. This is the state of the
 * application instance during the execution of the { @code destroy() }
 * method.
 */
public final static String STOPPING = "STOPPING";

private final String instanceId;

private final ApplicationDescriptor descriptor;

/**
 * Application instance identifier is specified by the container when the
 * instance is created. The instance identifier must remain static for the
 * lifetime of the instance, it must remain the same even across framework
 * restarts for the same application instance. This value must be the same
 * as the { @code service.pid } service property of this application handle.
 * <p>
 * The instance identifier should follow the following scheme:
 * &lt;i>application descriptor PID</i>&gt;.&lt;i>index</i>&gt; where
 * &lt;i>application descriptor PID</i>&gt; is the PID of the corresponding
 * { @code ApplicationDescriptor } and &lt;i>index</i>&gt; is a unique
 * integer index assigned by the application container. Even after

```

```

* destroying the application index the same index value should not be
* reused in a reasonably long timeframe.
*
* @param instanceId the instance identifier of the represented application
* instance. It must not be null.
*
* @param descriptor the { @code ApplicationDescriptor } of the represented
* application instance. It must not be null.
*
* @throws NullPointerException if any of the arguments is null.
*/
protected ApplicationHandle(String instanceId, ApplicationDescriptor descriptor) {
    if ((null == instanceId) || (null == descriptor)) {
        throw new NullPointerException("Parameters must not be null!");
    }

    this.instanceId = instanceId;
    this.descriptor = descriptor;

    try {
        delegate = new Delegate();
        delegate.setApplicationHandle(this, descriptor.delegate);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
    }
}

/**
 * Retrieves the { @code ApplicationDescriptor } to which this
 * { @code ApplicationHandle } belongs.
 *
 * @return The corresponding { @code ApplicationDescriptor }
 */
public final ApplicationDescriptor getApplicationDescriptor() {
    return descriptor;
}

/**
 * Get the state of the application instance.
 *
 * @return the state of the application.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
public abstract String getState();

```

```

/**
 * Returns the exit value for the application instance. The timeout
 * specifies how the method behaves when the application has not yet
 * terminated. A negative, zero or positive value may be used.
 * <ul>
 * <li>negative - The method does not wait for termination. If the
 * application has not terminated then an { @code ApplicationException } is
 * thrown.</li>
 *
 * <li>zero - The method waits until the application terminates.</li>
 *
 * <li>positive - The method waits until the application terminates or the
 * timeout expires. If the timeout expires and the application has not
 * terminated then an { @code ApplicationException } is thrown.</li>
 * </ul>
 * <p>
 * The default implementation throws an
 * { @code UnsupportedOperationException }. The application model should
 * override this method if exit values are supported.
 * </p>
 *
 * @param timeout The maximum time in milliseconds to wait for the
 * application to timeout.
 * @return The exit value for the application instance. The value is
 * application specific.
 * @throws UnsupportedOperationException If the application model does not
 * support exit values.
 * @throws InterruptedException If the thread is interrupted while waiting
 * for the timeout.
 * @throws ApplicationException If the application has not terminated. The
 * error code will be
 * { @link ApplicationException#APPLICATION_EXITVALUE_NOT_AVAILABLE}.
 *
 * @since 1.1
 */
public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
    throw new UnsupportedOperationException();
}

/**
 * Returns the unique identifier of this instance. This value is also
 * available as a service property of this application handle's service.pid.
 *
 * @return the unique identifier of the instance
 */
public final String getInstanceId() {
    return instanceId;
}

```



```

/**
 * The application instance's lifecycle state can be influenced by this
 * method. It lets the application instance perform operations to stop the
 * application safely, e.g. saving its state to a permanent storage.
 * <p>
 * The method must check if the lifecycle transition is valid; a STOPPING
 * application cannot be stopped. If it is invalid then the method must
 * exit. Otherwise the lifecycle state of the application instance must be
 * set to STOPPING. Then the destroySpecific() method must be called to
 * perform any application model specific steps for safe stopping of the
 * represented application instance.
 * <p>
 * At the end the { @code ApplicationHandle } must be unregistered. This
 * method should free all the resources related to this
 * { @code ApplicationHandle }.
 * <p>
 * When this method is completed the application instance has already made
 * its operations for safe stopping, the ApplicationHandle has been
 * unregistered and its related resources has been freed. Further calls on
 * this application should not be made because they may have unexpected
 * results.
 *
 * @throws SecurityException if the caller doesn't have "lifecycle"
 *     { @code ApplicationAdminPermission } for the corresponding
 *     application.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
public final void destroy() {
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
            * check whether the bundle was
            * uninstalled
            */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    destroySpecific();
}

/**
 * Called by the destroy() method to perform application model specific
 * steps to stop and destroy an application instance safely.
 *
 * @throws IllegalStateException if the application handle is unregistered

```

```

*/
protected abstract void destroySpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationHandle and delegate method calls
 * to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationHandle;
    static Method destroy;

    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationHandle");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationHandle property must be set");
                }

                try {
                    implementation = Class.forName(cName);
                } catch (ClassNotFoundException e) {
                    throw new NoClassDefFoundError(e.toString());
                }

                try {
                    setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[] {ApplicationHandle.class,
Object.class});
                    destroy = implementation.getMethod("destroy", new Class[] {});
                } catch (NoSuchMethodException e) {
                    throw new NoSuchMethodError(e.toString());
                }

                return null;
            }
        });
    }

    Object target;

    Delegate() throws Exception {
        target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
            public Object run() throws Exception {

```

```

    return implementation.newInstance();
    }
});
}

void setApplicationHandle(ApplicationHandle d, ApplicationDescriptor.Delegate descriptor) {
try {
try {
setApplicationHandle.invoke(target, new Object[] {d, descriptor.target});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}

void destroy() {
try {
try {
destroy.invoke(target, new Object[] {});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}
}
}
}
/*
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```

```
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* limitations under the License.  
*/
```

```
package org.osgi.service.application;
```

```
import java.util.Map;
```

```
/**
```

```
* It is allowed to schedule an application based on a specific event.  
* ScheduledApplication service keeps the schedule information. When the  
* specified event is fired a new instance must be launched. Note that launching  
* operation may fail because e.g. the application is locked.  
* <p>  
* Each { @code ScheduledApplication } instance has an identifier which is unique  
* within the scope of the application being scheduled.  
* <p>  
* { @code ScheduledApplication } instances are registered as services. The  
* { @link #APPLICATION_PID } service property contains the PID of the application  
* being scheduled, the { @link #SCHEDULE_ID } service property contains the  
* schedule identifier.
```

```
*
```

```
* @author $Id: 69c9a4995399ff1619ec236dcb9ae2553a12d1ae $
```

```
*/
```

```
public interface ScheduledApplication {
```

```
/**
```

```
* The property key for the identifier of the application being scheduled.
```

```
*/
```

```
public static final String APPLICATION_PID = ApplicationDescriptor.APPLICATION_PID;
```

```
/**
```

```
* The property key for the schedule identifier. The identifier is unique
```

```
* within the scope of the application being scheduled.
```

```
*/
```

```
public static final String SCHEDULE_ID = "schedule.id";
```

```
/**
```

```
* The key for the startup argument used to pass the event object that
```

```
* triggered the schedule to launch the application instance. The event is
```

```
* passed in a { @link java.security.GuardedObject } protected by the
```

```
* corresponding { @link org.osgi.service.event.TopicPermission }.
```

```
*/
```

```
public static final String TRIGGERING_EVENT = "org.osgi.triggeringevent";
```

```
/**
```

```

* The topic name for the virtual timer topic. Time based schedules should
* be created using this topic.
*/
public static final String TIMER_TOPIC = "org/osgi/application/timer";

/**
* The name of the <i>year</i> attribute of a virtual timer event. The value
* is defined by { @link java.util.Calendar#YEAR}.
*/
public static final String YEAR = "year";

/**
* The name of the <i>month</i> attribute of a virtual timer event. The
* value is defined by { @link java.util.Calendar#MONTH}.
*/
public static final String MONTH = "month";

/**
* The name of the <i>day of month</i> attribute of a virtual timer event.
* The value is defined by { @link java.util.Calendar#DAY_OF_MONTH}.
*/
public static final String DAY_OF_MONTH = "day_of_month";

/**
* The name of the <i>day of week</i> attribute of a virtual timer event.
* The value is defined by { @link java.util.Calendar#DAY_OF_WEEK}.
*/
public static final String DAY_OF_WEEK = "day_of_week";

/**
* The name of the <i>hour of day</i> attribute of a virtual timer event.
* The value is defined by { @link java.util.Calendar#HOUR_OF_DAY}.
*/
public static final String HOUR_OF_DAY = "hour_of_day";

/**
* The name of the <i>minute</i> attribute of a virtual timer event. The
* value is defined by { @link java.util.Calendar#MINUTE}.
*/
public static final String MINUTE = "minute";

/**
* Returns the identifier of this schedule. The identifier is unique within
* the scope of the application that the schedule is related to.
*
* @return the identifier of this schedule
*
*/

```

```

public String getScheduleId();

/**
 * Queries the topic of the triggering event. The topic may contain a
 * trailing asterisk as wildcard.
 *
 * @return the topic of the triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public String getTopic();

/**
 * Queries the event filter for the triggering event.
 *
 * @return the event filter for triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public String getEventFilter();

/**
 * Queries if the schedule is recurring.
 *
 * @return true if the schedule is recurring, otherwise returns false
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public boolean isRecurring();

/**
 * Retrieves the ApplicationDescriptor which represents the application and
 * necessary for launching.
 *
 * @return the application descriptor that represents the scheduled
 *     application
 *
 * @throws IllegalStateException if the scheduled application service is
 *     unregistered
 */
public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the startup arguments specified when the application was
 * scheduled. The method returns a copy of the arguments, it is not possible

```

```

* to modify the arguments after scheduling.
*
* @return the startup arguments of the scheduled application. It may be
*     null if null argument was specified.
*
* @throws IllegalStateException if the scheduled application service is
*     unregistered
*/
public Map getArguments();

/**
* Cancels this schedule of the application.
*
* @throws SecurityException if the caller doesn't have "schedule"
*     ApplicationAdminPermission for the scheduled application.
* @throws IllegalStateException if the scheduled application service is
*     unregistered
*/
public void remove();
}
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*/

package org.osgi.service.cm;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;

```

```

import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Filter;

/**
 * Indicates a bundle's authority to configure bundles or be updated by
 * Configuration Admin.
 *
 * @ThreadSafe
 * @author $Id: 8d063b34f0b7e467b8bf7ecd8b8e6d42384fdb7 $
 * @since 1.2
 */

public final class ConfigurationPermission extends BasicPermission {
    static final long serialVersionUID = 5716868734811965383L;
    /**
     * Provides permission to create new configurations for other bundles as
     * well as manipulate them. The action string {@value #CONFIGURE}.
     */
    public final static String CONFIGURE = "configure";

    /**
     * The permission to be updated, that is, act as a Managed Service or
     * Managed Service Factory. The action string {@value #TARGET}.
     *
     * @since 1.4
     */
    public final static String TARGET = "target";

    private final static int ACTION_CONFIGURE = 0x00000001;
    private final static int ACTION_TARGET = 0x00000002;
    private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
    final static int ACTION_NONE = 0;

    /**
     * The actions mask.
     */
    transient int action_mask;

    /**
     * The actions in canonical form.
     *
     * @serial
     */
    private volatile String actions = null;

```



```

/**
 * Parsed name if it includes wildcards: "*"
 */
private transient List<String> substrings;

/**
 * Create a new ConfigurationPermission.
 *
 * @param name Name of the permission. Wildcards ({ @code '*' }) are allowed
 *   in the name. During { @link #implies(Permission)}, the name is
 *   matched to the requested permission using the substring matching
 *   rules used by { @link Filter}s.
 * @param actions Comma separated list of { @link #CONFIGURE},
 *   { @link #TARGET} (case insensitive).
 */

public ConfigurationPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by ConfigurationPermissionCollection.
 *
 * @param name location string
 * @param mask action mask
 */
ConfigurationPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param mask action mask
 */
private void setTransients(int mask) {
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
    substrings = parseSubstring(getName());
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.

```

```

* @return action mask.
*/
private static int parseActions(String actions) {
    boolean seencomma = false;

    int mask = ACTION_NONE;

    if (actions == null) {
        return mask;
    }

    char[] a = actions.toCharArray();

    int i = a.length - 1;
    if (i < 0)
        return mask;

    while (i != -1) {
        char c;

        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '\r' || c == '\n' || c == '\f' || c == '\t'))
            i--;

        // check for the known strings
        int matchlen;

        if (i >= 5 && (a[i - 5] == 't' || a[i - 5] == 'T')
            && (a[i - 4] == 'a' || a[i - 4] == 'A')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'g' || a[i - 2] == 'G')
            && (a[i - 1] == 'e' || a[i - 1] == 'E')
            && (a[i] == 't' || a[i] == 'T')) {
            matchlen = 6;
            mask |= ACTION_TARGET;

        } else
        if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
            && (a[i - 7] == 'o' || a[i - 7] == 'O')
            && (a[i - 6] == 'n' || a[i - 6] == 'N')
            && (a[i - 5] == 'f' || a[i - 5] == 'F')
            && (a[i - 4] == 'i' || a[i - 4] == 'I')
            && (a[i - 3] == 'g' || a[i - 3] == 'G')
            && (a[i - 2] == 'u' || a[i - 2] == 'U')
            && (a[i - 1] == 'r' || a[i - 1] == 'R')
            && (a[i] == 'e' || a[i] == 'E')) {
            matchlen = 9;
            mask |= ACTION_CONFIGURE;
        }
    }
}

```

```

    } else {
        // parse error
        throw new IllegalArgumentException("invalid actions: " + actions);
    }

    // make sure we didn't just match the tail of a word
    // like "ackbarftarget". Also, skip to the comma.
    seencomma = false;
    while (i >= matchlen && !seencomma) {
        switch (a[i - matchlen]) {
            case ',':
                seencomma = true;
                /* FALLTHROUGH */
            case ' ':
            case '\r':
            case '\n':
            case '\f':
            case '\t':
                break;
            default :
                throw new IllegalArgumentException("invalid permission: " + actions);
        }
        i--;
    }

    // point i at the location of the comma minus one (or -1).
    i -= matchlen;
}

if (seencomma) {
    throw new IllegalArgumentException("invalid actions: " + actions);
}

return mask;
}

/**
 * Parse the name for wildcard processing.
 *
 * @param name The name of the permission.
 * @return {@code null} if the name has no wildcards or a
 *         {@code List<String>} where element is a substring to match or
 *         null for {@code '*'}.
 */
private static List<String> parseSubstring(String name) {
    if (name.indexOf('*') < 0) {
        return null;
    }
}

```

```

}
char[] chars = name.toCharArray();
StringBuffer sb = new StringBuffer(chars.length);

List<String> sub = new ArrayList<String>(10);

for (int pos = 0; pos < chars.length; pos++) {
    char c = chars[pos];

    switch (c) {
        case '*': {
            if (sb.length() > 0) {
                sub.add(sb.toString());
            }
            sb.setLength(0);
            sub.add(null);
            break;
        }

        case '\\': {
            pos++;
            if (pos < chars.length) {
                c = chars[pos];
            }
            /* fall through into default */
        }

        default : {
            sb.append(c);
            break;
        }
    }
    if (sb.length() > 0) {
        sub.add(sb.toString());
    }

    int size = sub.size();

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

    if (size == 1) {
        if (sub.get(0) != null) {
            return null;
        }
    }
}

```

```

return sub;
}

/**
 * Determines if a {@code ConfigurationPermission} object "implies" the
 * specified permission.
 *
 * @param p The target permission to check.
 * @return {@code true} if the specified permission is implied by this
 *         object; {@code false} otherwise.
 */

public boolean implies(Permission p) {
    if (!(p instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission requested = (ConfigurationPermission) p;
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested ConfigurationPermission which has already
 *                  be validated as a proper argument.
 * @param effective The effective actions with which to start.
 * @return {@code true} if the specified permission is implied by this
 *         object; {@code false} otherwise.
 */

boolean implies0(ConfigurationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    String requestedName = requested.getName();
    if (substrings == null) {
        return getName().equals(requestedName);
    }
    for (int i = 0, pos = 0, size = substrings.size(); i < size; i++) {
        String substr = substrings.get(i);

        if (i + 1 < size) /* if this is not that last substr */{
            if (substr == null) /* * */{
                String substr2 = substrings.get(i + 1);

```

```

if (substr2 == null) /* ** */
    continue; /* ignore first star */
/* xxx */
int index = requestedName.indexOf(substr2, pos);
if (index == -1) {
    return false;
}

pos = index + substr2.length();
if (i + 2 < size) // if there are more
    // substrings, increment
    // over the string we just
    // matched; otherwise need
    // to do the last substr
    // check
    i++;
} else /* xxx */{
    int len = substr.length();
    if (requestedName.regionMatches(pos, substr, 0, len)) {
        pos += len;
    } else {
        return false;
    }
}
} else /* last substr */{
    if (substr == null) /* ** */{
        return true;
    }
}
/* xxx */
return requestedName.endsWith(substr);
}
}

return false;
}

/**
 * Determines the equality of two {@code ConfigurationPermission} objects.
 * <p>
 * Two {@code ConfigurationPermission} objects are equal.
 *
 * @param obj The object being compared for equality with this object.
 * @return {@code true} if {@code obj} is equivalent to this
 *         {@code ConfigurationPermission}; {@code false} otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
}

```

```

    }

    if (!(obj instanceof ConfigurationPermission)) {
        return false;
    }

    ConfigurationPermission cp = (ConfigurationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return Hash code value for this object.
 */

public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * Returns the canonical string representation of the
 * { @code ConfigurationPermission } actions.
 *
 * <p>
 * Always returns present { @code ConfigurationPermission } actions in the
 * following order: { @value #CONFIGURE }, { @value #TARGET }
 *
 * @return Canonical string representation of the
 *         { @code ConfigurationPermission } actions.
 */

public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_CONFIGURE) == ACTION_CONFIGURE) {
            sb.append(CONFIGURE);
            comma = true;
        }

        if ((mask & ACTION_TARGET) == ACTION_TARGET) {
            if (comma)

```

```

        sb.append(',');
        sb.append(TARGET);
    }

    actions = result = sb.toString();
}

return result;
}

/**
 * Returns a new { @code PermissionCollection } object suitable for storing
 * { @code ConfigurationPermission }s.
 *
 * @return A new { @code PermissionCollection } object.
 */
public PermissionCollection newPermissionCollection() {
    return new ConfigurationPermissionCollection();
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the data, then initialize the transients
    s.defaultReadObject();
    setTransients(parseActions(actions));
}
}

/**
 * Stores a set of { @code ConfigurationPermission } permissions.
 *
 * @see java.security.Permission

```



```

* @see java.security.Permissions
* @see java.security.PermissionCollection
*/
final class ConfigurationPermissionCollection extends PermissionCollection {
    static final long    serialVersionUID = -6917638867081695839L;
    /**
     * Collection of permissions.
     *
     * @serial
     * @GuardedBy this
     */
    private Map<String, ConfigurationPermission> permissions;

    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean    all_allowed;

    /**
     * Creates an empty { @code ConfigurationPermissionCollection } object.
     *
     */
    public ConfigurationPermissionCollection() {
        permissions = new HashMap<String, ConfigurationPermission>();
        all_allowed = false;
    }

    /**
     * Adds the specified permission to the
     * { @code ConfigurationPermissionCollection }. The key for the hash is the
     * interface name of the service.
     *
     * @param permission The { @code Permission } object to add.
     *
     * @exception IllegalArgumentException If the permission is not an
     *         { @code ConfigurationPermission }.
     *
     * @exception SecurityException If this ConfigurationPermissionCollection
     *         object has been marked read-only.
     */
    public void add(Permission permission) {
        if (!(permission instanceof ConfigurationPermission)) {
            throw new IllegalArgumentException("invalid permission: " + permission);
        }
    }

```

```

if (isReadOnly())
    throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");

final ConfigurationPermission cp = (ConfigurationPermission) permission;
final String name = cp.getName();
synchronized (this) {
    Map<String, ConfigurationPermission> pc = permissions;
    final ConfigurationPermission existing = pc.get(name);
    if (existing != null) {
        final int oldMask = existing.action_mask;
        final int newMask = cp.action_mask;
        if (oldMask != newMask) {
            pc.put(name, new ConfigurationPermission(name, oldMask | newMask));
        }
    } else {
        pc.put(name, cp);
    }
}

if (!all_allowed) {
    if (name.equals("*")) {
        all_allowed = true;
    }
}
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in {@code permission}.
 *
 * @param permission The Permission object to compare with this
 *     {@code ConfigurationPermission} object.
 * @return {@code true} if {@code permission} is a proper subset of a
 *     permission in the set; {@code false} otherwise.
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        return false;
    }
    final ConfigurationPermission requested = (ConfigurationPermission) permission;
    int effective = ConfigurationPermission.ACTION_NONE;

    Collection<ConfigurationPermission> perms;
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        /* short circuit if the "*" Permission was added */
        if (all_allowed) {

```

```

ConfigurationPermission cp = pc.get("*");
if (cp != null) {
    effective |= cp.action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) == desired) {
        return true;
    }
}
perms = pc.values();
}
/* iterate one by one over permissions */
for (ConfigurationPermission perm : perms) {
    if (perm.implies0(requested, effective)) {
        return true;
    }
}
return false;
}

/**
 * Returns an enumeration of all {@code ConfigurationPermission} objects in
 * the container.
 *
 * @return Enumeration of all {@code ConfigurationPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectOutputStream[] serialPersistentFields = {new ObjectOutputStream("hasElement",
Boolean.TYPE), new ObjectOutputStream("permissions", HashMap.class),
    new ObjectOutputStream("all_allowed", Boolean.TYPE) };

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("hasElement", false);
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{
    ObjectInputStream.GetField gfields = in.readFields();
    boolean hasElement = gfields.get("hasElement", false);

```

```

if (hasElement) { // old format
    permissions = new HashMap<String, ConfigurationPermission>();
    permissions.put("*", new ConfigurationPermission("*", ConfigurationPermission.CONFIGURE));
    all_allowed = true;
} else {
    permissions = (HashMap<String, ConfigurationPermission>) gfields.get("permissions", new HashMap<String,
ConfigurationPermission>());
    all_allowed = gfields.get("all_allowed", false);
}
}
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.component.annotations;

/**
 * Configuration Policy for the {@link Component} annotation.
 *
 * <p>
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 *
 * @author $Id: 2bb2640aedd7d09de30e9ec3f471f6a8ccccfc3c $
 * @since 1.1
 */
public enum ConfigurationPolicy {
    /**
     * Use the corresponding Configuration object if present but allow the
     * component to be satisfied even if the corresponding Configuration object
     * is not present.
     */
    OPTIONAL("optional"),

```

```

/**
 * There must be a corresponding Configuration object for the component
 * configuration to become satisfied.
 */
REQUIRE("require"),

/**
 * Always allow the component configuration to be satisfied and do not use
 * the corresponding Configuration object even if it is present.
 */
IGNORE("ignore");

private final String value;

ConfigurationPolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.component.annotations;

/**
 * Policy for the {@link Reference} annotation.
 *
 * @author $Id: 835125670fa25ca1205beacabbb2d4cfa5896fd4 $
 */
public enum ReferencePolicy {

```

```
/**
 * The static policy is the most simple policy and is the default policy. A
 * component instance never sees any of the dynamics. Component
 * configurations are deactivated before any bound service for a reference
 * having a static policy becomes unavailable. If a target service is
 * available to replace the bound service which became unavailable, the
 * component configuration must be reactivated and bound to the replacement
 * service.
 */
STATIC("static"),
```

```
/**
 * The dynamic policy is slightly more complex since the component
 * implementation must properly handle changes in the set of bound services.
 * With the dynamic policy, SCR can change the set of bound services without
 * deactivating a component configuration. If the component uses the event
 * strategy to access services, then the component instance will be notified
 * of changes in the set of bound services by calls to the bind and unbind
 * methods.
 */
DYNAMIC("dynamic");
```

```
private final String value;
```

```
ReferencePolicy(String value) {
    this.value = value;
}
```

```
@Override
public String toString() {
    return value;
}
}
```

```
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 */
```

```

package org.osgi.service.component.annotations;

/**
 * Policy option for the {@link Reference} annotation.
 *
 * @author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $
 * @since 1.2
 */
public enum ReferencePolicyOption {
    /**
     * The reluctant policy option is the default policy option for both
     * {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
     * dynamic} reference policies. When a new target service for a reference
     * becomes available, references having the reluctant policy option for the
     * static policy or the dynamic policy with a unary cardinality will ignore
     * the new target service. References having the dynamic policy with a
     * multiple cardinality will bind the new target service.
     */
    RELUCTANT("reluctant"),

    /**
     * The greedy policy option is a valid policy option for both
     * {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
     * dynamic} reference policies. When a new target service for a reference
     * becomes available, references having the greedy policy option will bind
     * the new target service.
     */
    GREEDY("greedy");

    private final String value;

    ReferencePolicyOption(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }
}

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*/

```

```
package org.osgi.service.coordinator;
```

```

import java.io.IOException;
import java.io.NotSerializableException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.AccessController;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Bundle;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

```

```

/**
 * A bundle's authority to create or use a {@link Coordination}.
 *
 * <p>
 * { @code CoordinationPermission } has three actions: { @code initiate },
 * { @code participate } and { @code admin }.
 *
 * @ThreadSafe
 * @author $Id: 13aa34eaea5f268a315be475fa8bb7b2718415bd $
 */

```

```
public final class CoordinationPermission extends BasicPermission {
```

```
    private static final long    serialVersionUID = 1L;
```



```

/**
 * The action string {@code initiate}.
 */
public final static String INITIATE = "initiate";
/**
 * The action string {@code participate}.
 */
public final static String PARTICIPATE = "participate";
/**
 * The action string {@code admin}.
 */
public final static String ADMIN = "admin";

private final static int ACTION_INITIATE = 0x00000001;
private final static int ACTION_PARTICIPATE = 0x00000002;
private final static int ACTION_ADMIN = 0x00000004;
private final static int ACTION_ALL = ACTION_INITIATE | ACTION_PARTICIPATE | ACTION_ADMIN;
final static int ACTION_NONE = 0;

/**
 * The actions mask.
 */
transient int action_mask;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * The bundle used by this CoordinationPermission.
 */
transient final Bundle bundle;

/**
 * If this CoordinationPermission was constructed with a filter, this holds
 * a Filter matching object used to evaluate the filter in implies.
 */
transient Filter filter;

/**
 * This map holds the properties of the permission, used to match a filter
 * in implies. This is not initialized until necessary, and then cached in
 * this object.
 */
private transient volatile Map<String, Object> properties;

```

```

/**
 * Creates a new granted { @code CoordinationPermission } object.
 *
 * This constructor must only be used to create a permission that is going
 * to be checked.
 * <p>
 * Examples:
 *
 * <pre>
 * (coordination.name=com.acme.*)
 * (&!(signer=\*,o=ACME,c=US)(coordination.name=com.acme.*))
 * (signer=\*,o=ACME,c=US)
 * </pre>
 *
 * <p>
 * When a signer key is used within the filter expression the signer value
 * must escape the special filter chars ('*', '(', ')').
 * <p>
 * The name is specified as a filter expression. The filter gives access to
 * the following attributes:
 * <ul>
 * <li>signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.</li>
 * <li>location - The location of the exporting bundle.</li>
 * <li>id - The bundle ID of the exporting bundle.</li>
 * <li>name - The symbolic name of the exporting bundle.</li>
 * <li>coordination.name - The name of the requested coordination.</li>
 * </ul>
 * Filter attribute names are processed in a case sensitive manner.
 *
 * @param filter A filter expression. Filter attribute names are processed
 * in a case sensitive manner. A special value of { @code "*" } can be
 * used to match all coordinations.
 * @param actions { @code admin }, { @code initiate } or { @code participate }
 * (canonical order).
 * @throws IllegalArgumentException If the filter has an invalid syntax.
 */
public CoordinationPermission(String filter, String actions) {
    this(parseFilter(filter), parseActions(actions));
}

/**
 * Creates a new requested { @code CoordinationPermission } object to be used
 * by the code that must perform { @code checkPermission }.
 * { @code CoordinationPermission } objects created with this constructor
 * cannot be added to an { @code CoordinationPermission } permission

```

```

* collection.
*
* @param coordinationName The name of the requested Coordination.
* @param coordinationBundle The bundle which
*   { @link Coordination#getBundle() created } the requested
*   Coordination.
* @param actions { @code admin }, { @code initiate } or { @code participate }
*   (canonical order).
*/
public CoordinationPermission(String coordinationName, Bundle coordinationBundle, String actions) {
    super(coordinationName);
    setTransients(null, parseActions(actions));
    this.bundle = coordinationBundle;
    if (coordinationName == null) {
        throw new NullPointerException("coordinationName must not be null");
    }
    if (coordinationBundle == null) {
        throw new NullPointerException("coordinationBundle must not be null");
    }
}

/**
 * Package private constructor used by CoordinationPermissionCollection.
 *
 * @param filter name filter
 * @param mask action mask
 */
CoordinationPermission(Filter filter, int mask) {
    super((filter == null) ? "*" : filter.toString());
    setTransients(filter, mask);
    this.bundle = null;
}

/**
 * Called by constructors and when deserialized.
 *
 * @param filter Permission's filter or { @code null } for wildcard.
 * @param mask action mask
 */
private void setTransients(Filter filter, int mask) {
    this.filter = filter;
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    this.action_mask = mask;
}

/**

```

```

* Parse action string into action mask.
*
* @param actions Action string.
* @return action mask.
*/
private static int parseActions(String actions) {
    boolean seencomma = false;

    int mask = ACTION_NONE;

    if (actions == null) {
        return mask;
    }

    char[] a = actions.toCharArray();

    int i = a.length - 1;
    if (i < 0)
        return mask;

    while (i != -1) {
        char c;

        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '\r' || c == '\n' || c == '\f' || c == '\t'))
            i--;

        // check for the known strings
        int matchlen;

        if (i >= 4 && (a[i - 4] == 'a' || a[i - 4] == 'A')
            && (a[i - 3] == 'd' || a[i - 3] == 'D')
            && (a[i - 2] == 'm' || a[i - 2] == 'M')
            && (a[i - 1] == 'i' || a[i - 1] == 'I')
            && (a[i] == 'n' || a[i] == 'N')) {
            matchlen = 5;
            mask |= ACTION_ADMIN;

        }
        else
            if (i >= 7 && (a[i - 7] == 'i' || a[i - 7] == 'I')
                && (a[i - 6] == 'n' || a[i - 6] == 'N')
                && (a[i - 5] == 'i' || a[i - 5] == 'I')
                && (a[i - 4] == 't' || a[i - 4] == 'T')
                && (a[i - 3] == 'i' || a[i - 3] == 'I')
                && (a[i - 2] == 'a' || a[i - 2] == 'A')
                && (a[i - 1] == 't' || a[i - 1] == 'T')
                && (a[i] == 'e' || a[i] == 'E')) {

```

```

matchlen = 8;
mask |= ACTION_INITIATE;

}
else {
if (i >= 10 && (a[i - 10] == 'p' || a[i - 10] == 'P')
    && (a[i - 9] == 'a' || a[i - 9] == 'A')
    && (a[i - 8] == 'r' || a[i - 8] == 'R')
    && (a[i - 7] == 't' || a[i - 7] == 'T')
    && (a[i - 6] == 'i' || a[i - 6] == 'I')
    && (a[i - 5] == 'c' || a[i - 5] == 'C')
    && (a[i - 4] == 'i' || a[i - 4] == 'I')
    && (a[i - 3] == 'p' || a[i - 3] == 'P')
    && (a[i - 2] == 'a' || a[i - 2] == 'A')
    && (a[i - 1] == 't' || a[i - 1] == 'T')
    && (a[i] == 'e' || a[i] == 'E')) {
matchlen = 11;
mask |= ACTION_PARTICIPATE;

} else {
// parse error
throw new IllegalArgumentException("invalid permission: " + actions);
}
}

// make sure we didn't just match the tail of a word
// like "ackbarfadmin". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
switch (a[i - matchlen]) {
case ',':
seencomma = true;
/* FALLTHROUGH */
case ' ':
case '\r':
case '\n':
case '\f':
case '\t':
break;
default :
throw new IllegalArgumentException("invalid permission: " + actions);
}
i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;
}

```

```

if (secomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}

return mask;
}

/**
 * Parse filter string into a Filter object.
 *
 * @param filterString The filter string to parse.
 * @return a Filter for this bundle.
 * @throws IllegalArgumentException If the filter syntax is invalid.
 */
private static Filter parseFilter(String filterString) {
    filterString = filterString.trim();
    if (filterString.equals("")) {
        return null;
    }
    try {
        return FrameworkUtil.createFilter(filterString);
    } catch (InvalidSyntaxException e) {
        IllegalArgumentException iae = new IllegalArgumentException("invalid filter");
        iae.initCause(e);
        throw iae;
    }
}

/**
 * Determines if the specified permission is implied by this object.
 *
 * <p>
 * This method checks that the filter of the target is implied by the
 * coordination name of this object. The list of
 * {@code CoordinationPermission} actions must either match or allow for the
 * list of the target object to imply the target
 * {@code CoordinationPermission} action.
 * </p>
 *
 * @param p The requested permission.
 * @return {@code true} if the specified permission is implied by this
 *         object; {@code false} otherwise.
 */
public boolean implies(Permission p) {
    if (!(p instanceof CoordinationPermission)) {
        return false;
    }
}

```

```

CoordinationPermission requested = (CoordinationPermission) p;
if (bundle != null) {
    return false;
}
// if requested permission has a filter, then it is an invalid argument
if (requested.filter != null) {
    return false;
}
return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested CoordinationPermission which has already
 *     be validated as a proper argument. The requested
 *     CoordinationPermission must not have a filter expression.
 * @param effective The effective actions with which to start.
 * @return {@code true} if the specified permission is implied by this
 *     object; {@code false} otherwise.
 */
boolean implies0(CoordinationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    /* Get filter */
    Filter f = filter;
    if (f == null) {
        // it's "*"
        return true;
    }
    return f.matches(requested.getProperties());
}

/**
 * Returns the canonical string representation of the
 * {@code CoordinationPermission} actions.
 *
 * <p>
 * Always returns present {@code CoordinationPermission} actions in the
 * following order: {@code admin}, {@code initiate}, {@code participate}.
 *
 * @return Canonical string representation of the
 *     {@code CoordinationPermission} actions.

```

```

*/
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_ADMIN) == ACTION_ADMIN) {
            sb.append(ADMIN);
            comma = true;
        }

        if ((mask & ACTION_INITIATE) == ACTION_INITIATE) {
            if (comma)
                sb.append(',');
            sb.append(INITIATE);
            comma = true;
        }

        if ((mask & ACTION_PARTICIPATE) == ACTION_PARTICIPATE) {
            if (comma)
                sb.append(',');
            sb.append(PARTICIPATE);
            comma = true;
        }

        actions = result = sb.toString();
    }
    return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * {@code CoordinationPermission} objects.
 *
 * @return A new {@code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new CoordinationPermissionCollection();
}

/**
 * Determines the equality of two {@code CoordinationPermission} objects.
 *
 * This method checks that specified permission has the same name and
 * {@code CoordinationPermission} actions as this
 * {@code CoordinationPermission} object.

```



```

*
* @param obj The object to test for equality with this
*   { @code CoordinationPermission } object.
* @return { @code true } if { @code obj } is a { @code CoordinationPermission },
*   and has the same name and actions as this
*   { @code CoordinationPermission } object; { @code false } otherwise.
*/
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }

    if (!(obj instanceof CoordinationPermission)) {
        return false;
    }

    CoordinationPermission cp = (CoordinationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName()) && ((bundle == cp.bundle) ||
((bundle != null) && bundle.equals(cp.bundle)));
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    if (bundle != null) {
        h = 31 * h + bundle.hashCode();
    }
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    if (bundle != null) {
        throw new NotSerializableException("cannot serialize");
    }
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)

```

```

    getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseFilter(getName()), parseActions(actions));
}

/**
 * Called by {@link CoordinationPermission#implies(Permission)}. This method
 * is only called on a requested permission which cannot have a filter set.
 *
 * @return a map of properties for this permission.
 */
private Map<String, Object> getProperties() {
    Map<String, Object> result = properties;
    if (result != null) {
        return result;
    }
    final Map<String, Object> map = new HashMap<String, Object>(5);
    map.put("coordination.name", getName());
    if (bundle != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
            public Object run() {
                map.put("id", new Long(bundle.getBundleId()));
                map.put("location", bundle.getLocation());
                String name = bundle.getSymbolicName();
                if (name != null) {
                    map.put("name", name);
                }
                SignerProperty signer = new SignerProperty(bundle);
                if (signer.isBundleSigned()) {
                    map.put("signer", signer);
                }
                return null;
            }
        });
    }
    return properties = map;
}
}

```

```

/**
 * Package private class used for filter matching on signer key during filter
 * expression evaluation in the permission implies method.
 *
 * @Immutable
 */
final class SignerProperty {
    private final Bundle bundle;
    private final String pattern;

    /**
     * String constructor used by the filter matching algorithm to construct a
     * SignerProperty from the attribute value in a filter expression.
     *
     * @param pattern Attribute value in the filter expression.
     */
    public SignerProperty(String pattern) {
        this.pattern = pattern;
        this.bundle = null;
    }

    /**
     * Used by the permission implies method to build the properties for a
     * filter match.
     *
     * @param bundle The bundle whose signers are to be matched.
     */
    SignerProperty(Bundle bundle) {
        this.bundle = bundle;
        this.pattern = null;
    }

    /**
     * Used by the filter matching algorithm. This methods does NOT satisfy the
     * normal equals contract. Since the class is only used in filter expression
     * evaluations, it only needs to support comparing an instance created with
     * a Bundle to an instance created with a pattern string from the filter
     * expression.
     *
     * @param o SignerProperty to compare against.
     * @return true if the DN name chain matches the pattern.
     */
    public boolean equals(Object o) {
        if (!(o instanceof SignerProperty))
            return false;
        SignerProperty other = (SignerProperty) o;
        Bundle matchBundle = bundle != null ? bundle : other.bundle;
        String matchPattern = bundle != null ? other.pattern : pattern;
    }

```

```

    Map<X509Certificate, List<X509Certificate>> signers =
matchBundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
for (List<X509Certificate> signerCerts : signers.values()) {
    List<String> dnChain = new ArrayList<String>(signerCerts.size());
for (X509Certificate signerCert : signerCerts) {
    dnChain.add(signerCert.getSubjectDN().getName());
}
try {
    if (FrameworkUtil.matchDistinguishedNameChain(matchPattern, dnChain)) {
        return true;
    }
} catch (IllegalArgumentException e) {
    continue; // bad pattern
}
}
return false;
}

/**
 * Since the equals method does not obey the general equals contract, this
 * method cannot generate hash codes which obey the equals contract.
 */
public int hashCode() {
    return 31;
}

/**
 * Check if the bundle is signed.
 *
 * @return true if constructed with a bundle that is signed.
 */
boolean isBundleSigned() {
    if (bundle == null) {
        return false;
    }
    Map<X509Certificate, List<X509Certificate>> signers =
bundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    return !signers.isEmpty();
}

/**
 * Stores a set of {@code CoordinationPermission} permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */

```

```

final class CoordinationPermissionCollection extends PermissionCollection {
    static final long    serialVersionUID = -3350758995234427603L;
    /**
     * Collection of permissions.
     *
     * @serial
     * @GuardedBy this
     */
    private Map<String, CoordinationPermission> permissions;

    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean    all_allowed;

    /**
     * Create an empty CoordinationPermissions object.
     */
    public CoordinationPermissionCollection() {
        permissions = new HashMap<String, CoordinationPermission>();
        all_allowed = false;
    }

    /**
     * Adds a permission to this permission collection.
     *
     * @param permission The {@code CoordinationPermission} object to add.
     * @throws IllegalArgumentException If the specified permission is not a
     *     {@code CoordinationPermission} instance or was constructed with a
     *     Bundle object.
     * @throws SecurityException If this
     *     {@code CoordinationPermissionCollection} object has been marked
     *     read-only.
     */
    public void add(final Permission permission) {
        if (!(permission instanceof CoordinationPermission)) {
            throw new IllegalArgumentException("invalid permission: " + permission);
        }
        if (isReadOnly()) {
            throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
        }

        final CoordinationPermission cp = (CoordinationPermission) permission;
        if (cp.bundle != null) {

```

```

throw new IllegalArgumentException("cannot add to collection: " + cp);
}

final String name = cp.getName();
synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    final CoordinationPermission existing = pc.get(name);
    if (existing != null) {
        final int oldMask = existing.action_mask;
        final int newMask = cp.action_mask;
        if (oldMask != newMask) {
            pc.put(name, new CoordinationPermission(existing.filter, oldMask | newMask));
        }
    } else {
        pc.put(name, cp);
    }

    if (!all_allowed) {
        if (name.equals("*")) {
            all_allowed = true;
        }
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in { @code permission}.
 *
 * @param permission The Permission object to compare with this
 *     { @code CoordinationPermission} object.
 * @return { @code true} if { @code permission} is a proper subset of a
 *     permission in the set; { @code false} otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        return false;
    }
    final CoordinationPermission requested = (CoordinationPermission) permission;
    /* if requested permission has a filter, then it is an invalid argument */
    if (requested.filter != null) {
        return false;
    }

    int effective = CoordinationPermission.ACTION_NONE;

    Collection<CoordinationPermission> perms;

```

```

synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    /* short circuit if the "*" Permission was added */
    if (all_allowed) {
        CoordinationPermission cp = pc.get("*");
        if (cp != null) {
            effective |= cp.action_mask;
            final int desired = requested.action_mask;
            if ((effective & desired) == desired) {
                return true;
            }
        }
    }
    perms = pc.values();
}
/* iterate one by one over filteredPermissions */
for (CoordinationPermission perm : perms) {
    if (perm.implies0(requested, effective)) {
        return true;
    }
}
return false;
}

/**
 * Returns an enumeration of all {@code CoordinationPermission} objects in
 * the container.
 *
 * @return Enumeration of all {@code CoordinationPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {new ObjectStreamField("permissions",
HashMap.class), new ObjectStreamField("all_allowed", Boolean.TYPE)};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{

```

```

ObjectInputStream.GetField gfields = in.readFields();
permissions = (HashMap<String, CoordinationPermission>) gfields.get("permissions", null);
all_allowed = gfields.get("all_allowed", false);
}
}
/*
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*/

package org.osgi.service.deploymentadmin.spi;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;
import org.osgi.service.deploymentadmin.DeploymentAdminPermission;

/**
* The { @code DeploymentCustomizerPermission } permission gives the right to
* Resource Processors to access a bundle's (residing in a Deployment Package)
* private area. The bundle and the Resource Processor (customizer) have to be
* in the same Deployment Package.
* <p>
*
* The Resource Processor that has this permission is allowed to access the
* bundle's private area by calling the
* { @link DeploymentSession#getDataFile(Bundle) } method during the session (see
* { @link DeploymentSession}). After the session ends the FilePermissions are
* withdrawn. The Resource Processor will have { @code FilePermission } with
* "read", "write" and "delete" actions for the returned { @link java.io.File }
* that represents the the base directory of the persistent storage area and for
* its subdirectories.
* <p>

```



```

*
* The actions string is converted to lowercase before processing.
*/
public class DeploymentCustomizerPermission extends Permission {

/**
*
*/
private static final long serialVersionUID = 1L;

/**
* Constant String to the "privatearea" action.
*/
public static final String PRIVATEAREA = "privatearea";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;
static {
constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
public Object run() {
String pckg = System.getProperty(delegateProperty);
if (null == pckg)
throw new RuntimeException("Property "" + delegateProperty + "" is not set");
try {
Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
return c.getConstructor(new Class[] {String.class, String.class});
} catch (Exception e) {
throw new RuntimeException(e);
}
}
});
}

/**
* Creates a new {@code DeploymentCustomizerPermission} object for the given
* {@code name} and {@code action}.
* <p>
*
* The name parameter is a filter string. This filter has the same syntax as
* an OSGi filter but only the "name" attribute is allowed. The value of the
* attribute is a Bundle Symbolic Name that represents a bundle. The only
* allowed action is the "privatearea" action. E.g.
*
* <pre>
* Permission perm = new DeploymentCustomizerPermission(
*     &quot;(name=com.acme.bundle)&quot;, &quot;privatearea&quot;);
* </pre>

```

```

*
* The Resource Processor that has this permission is allowed to access the
* bundle's private area by calling the
* {@link DeploymentSession#getDataFile(Bundle)} method. The Resource
* Processor will have {@code FilePermission} with "read", "write" and
* "delete" actions for the returned {@link java.io.File} and its
* subdirectories during the deployment session.
*
* @param name Bundle Symbolic Name of the target bundle, must not be
*     {@code null}.
* @param actions action string (only the "privatearea" or "*" action is
*     valid; "*" means all the possible actions), must not be
*     {@code null}.
* @throws IllegalArgumentException if the filter is invalid, the list of
*     actions contains unknown operations or one of the parameters is
*     {@code null}
*/
public DeploymentCustomizerPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] { name, actions });
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

/**
* Checks two DeploymentCustomizerPermission objects for equality. Two
* permission objects are equal if:
* <p>
* <ul>
* <li>their target filters are equal (semantically and not character by
* character) and</li>
* <li>their actions are the same</li>
* </ul>
*
* @param obj the reference object with which to compare.
* @return true if the two objects are equal.
* @see java.lang.Object#equals(java.lang.Object)

```

```

*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) obj;
    return delegate.equals(dcp.delegate);
}

/**
 * Returns hash code for this permission object.
 *
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 *
 * @return Action list of this permission instance. It is always
 *         "privatearea".
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}

/**
 * Checks if this DeploymentCustomizerPermission would imply the parameter
 * permission. This permission implies another
 * DeploymentCustomizerPermission permission if:
 *
 * <ul>
 * <li>both of them has the "privatearea" action (other actions are not
 * allowed) and</li>
 * <li>their filters (only name attribute is allowed in the filters) match
 * similarly to { @link DeploymentAdminPermission}.</li>
 * </ul>
 *
 * The value of the name attribute means Bundle Symbolic Name and not
 * Deployment Package Symbolic Name here!
 * <p>
 *
 * @param permission Permission to check.

```

```

* @return true if this DeploymentCustomizerPermission object implies the
*     specified permission.
* @see java.security.Permission#implies(java.security.Permission)
*/
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentCustomizerPermission))
        return false;

    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) permission;

    return delegate.implies(dcp.delegate);
}

/**
* Returns a new PermissionCollection object for storing
* DeploymentCustomizerPermission objects.
*
* @return The new PermissionCollection.
* @see java.security.Permission#newPermissionCollection()
*/
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}

}

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* limitations under the License.
*/

package org.osgi.service.deploymentadmin;

import java.io.InputStream;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;

```

```

import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**
 * DeploymentAdminPermission controls access to the Deployment Admin service.
 * <p>
 *
 * The permission uses a filter string formatted similarly to the
 * { @link org.osgi.framework.Filter}. The filter determines the target of the
 * permission. The { @code DeploymentAdminPermission} uses the { @code name} and
 * the { @code signer} filter attributes only. The value of the { @code signer}
 * attribute is matched against the signer chain (represented with its semicolon
 * separated Distinguished Name chain) of the Deployment Package, and the value
 * of the { @code name} attribute is matched against the value of the
 * "DeploymentPackage-Name" manifest header of the Deployment Package. Example:
 *
 * <ul>
 * <li>(signer=cn = Bugs Bunny, o = ACME, c = US)</li>
 * <li>(name=org.osgi.ExampleApp)</li>
 * </ul>
 *
 * Wildcards also can be used:
 * <p>
 *
 * <pre>
 * (signer=cn=*,o=ACME,c=*)
 * </pre>
 *
 * "cn" and "c" may have an arbitrary value
 *
 * <pre>
 * (signer=*, o=ACME, c=US)
 * </pre>
 *
 * Only the value of "o" and "c" are significant
 *
 * <pre>
 * (signer=* ; ou=S & V, o=Tweety Inc., c=US)
 * </pre>
 *
 * The first element of the certificate chain is not important, only the second
 * (the Distinguished Name of the root certificate)
 *
 * <pre>
 * (signer=- ; *, o=Tweety Inc., c=US)
 * </pre>
 *

```

\* The same as the previous but '-' represents zero or more certificates,  
\* whereas the asterisk only represents a single certificate

\*  
\* <pre>  
\* (name=\*)  
\* </pre>

\* The name of the Deployment Package doesn't matter

\*  
\* <pre>  
\* (name=org.osgi.\*)  
\* </pre>

\* The name has to begin with "org.osgi."

\* <p>  
\* The following actions are allowed:

\* <p>  
\*  
\* <b>list</b>  
\* <p>

\* A holder of this permission can access the inventory information of the  
\* deployment packages selected by the <code>&lt;filter&gt;</code> string. The filter selects  
\* the deployment packages on which the holder of the permission can acquire  
\* detailed inventory information. See  
\* { @link DeploymentAdmin#getDeploymentPackage(Bundle) },  
\* { @link DeploymentAdmin#getDeploymentPackage(String) } and  
\* { @link DeploymentAdmin#listDeploymentPackages }.

\* <p>  
\*  
\* <b>install</b>  
\* <p>

\* A holder of this permission can install/update deployment packages if the  
\* deployment package satisfies the <code>&lt;filter&gt;</code> string. See  
\* { @link DeploymentAdmin#installDeploymentPackage }.

\* <p>  
\*  
\* <b>uninstall</b>

\* <p>  
\*  
\* A holder of this permission can uninstall deployment packages if the  
\* deployment package satisfies the <code>&lt;filter&gt;</code> string. See  
\* { @link DeploymentPackage#uninstall() }.

\* <p>  
\*  
\* <b>uninstall\_forced</b>  
\* <p>

```

*
* A holder of this permission can forcefully uninstall deployment packages if
* the deployment package satisfies the <code>filter</code> string. See
* { @link DeploymentPackage#uninstallForced()}.
* <p>
*
* <b>cancel</b>
* <p>
*
* A holder of this permission can cancel an active deployment action. This
* action being canceled could correspond to the install, update or uninstall of
* a deployment package that satisfies the <code>filter</code> string. See
* { @link DeploymentAdmin#cancel()}
* <p>
*
* <b>metadata</b>
* <p>
*
* A holder of this permission is able to retrieve metadata information about a
* Deployment Package (e.g. is able to ask its manifest headers). See
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)},
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()},
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)},
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)},
* { @link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)}, { @link
org.osgi.service.deploymentadmin.DeploymentPackage#getResources()}
* <p>
*
* The actions string is converted to lower case before processing.
*/
public final class DeploymentAdminPermission extends Permission {

/**
 *
 */
private static final long serialVersionUID = 1L;

/**
 * Constant String to the "install" action.
 * <p>
 *
 * @see DeploymentAdmin#installDeploymentPackage(InputStream)
 */
public static final String INSTALL = "install";

/**
 * Constant String to the "list" action.
 * <p>

```

```

*
* @see DeploymentAdmin#listDeploymentPackages()
* @see DeploymentAdmin#getDeploymentPackage(String)
* @see DeploymentAdmin#getDeploymentPackage(Bundle)
*/
public static final String LIST = "list";

/**
* Constant String to the "uninstall" action.
* <p>
*
* @see DeploymentPackage#uninstall()
*/
public static final String UNINSTALL = "uninstall";

/**
* Constant String to the "uninstall_forced" action.
* <p>
*
* @see DeploymentPackage#uninstallForced()
*/
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
* Constant String to the "cancel" action.
* <p>
*
* @see DeploymentAdmin#cancel()
*/
public static final String CANCEL = "cancel";

/**
* Constant String to the "metadata" action.
* <p>
*
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String,
* String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
* @see org.osgi.service.deploymentadmin.DeploymentPackage#getResources()
*/
public static final String METADATA = "metadata";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;

```



```

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property "" + delegateProperty + "" is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentAdminPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new {@code DeploymentAdminPermission} object for the given
 * {@code name} and {@code action}.
 * <p>
 * The {@code name} parameter identifies the target deployment package the
 * permission relates to. The {@code actions} parameter contains the comma
 * separated list of allowed actions.
 *
 * @param name filter string, must not be null.
 * @param actions action string, must not be null. "*" means all the
 * possible actions.
 * @throws IllegalArgumentException if the filter is invalid, the list of
 * actions contains unknown operations or one of the parameters is
 * null
 */
public DeploymentAdminPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
}

```

```

/**
 * Checks two DeploymentAdminPermission objects for equality. Two permission
 * objects are equal if:
 * <p>
 *
 * <ul>
 * <li>their target filters are semantically equal and</li>
 * <li>their actions are the same</li>
 * </ul>
 *
 * @param obj The reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) obj;
    return delegate.equals(dap.delegate);
}

/**
 * Returns hash code for this permission object.
 *
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * <p>
 * The method always gives back the actions in the following (alphabetical)
 * order:
 * { @code cancel, install, list, metadata, uninstall, uninstall_forced }
 *
 * @return Action list of this permission instance. This is a
 * comma-separated list that reflects the action parameter of the
 * constructor.
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}

```

```

/**
 * Checks if this DeploymentAdminPermission would imply the parameter
 * permission.
 * <p>
 * Precondition of the implication is that the action set of this permission
 * is the superset of the action set of the other permission. Further rules
 * of implication are determined by the { @link org.osgi.framework.Filter }
 * rules and the "OSGi Service Platform, Core Specification Release 4,
 * Chapter Certificate Matching".
 * <p>
 *
 * The allowed attributes are: { @code name } (the symbolic name of the
 * deployment package) and { @code signer } (the signer of the deployment
 * package). In both cases wildcards can be used.
 * <p>
 *
 * Examples:
 *
 * <pre>
 * 1. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list")
 * 2. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list, install")
 * 3. DeploymentAdminPermission("(name=org.osgi.*)", "list")
 * 4. DeploymentAdminPermission("(signer=*, o=ACME, c=US)", "list")
 * 5. DeploymentAdminPermission("(signer=cn=Bugs Bunny, o=ACME, c=US)", "list")
 * </pre>
 * <p>
 *
 * <pre>
 * 1. implies 1.
 * 2. implies 1.
 * 1. doesn't implies 2.
 * 3. implies 1.
 * 4. implies 5.
 * </pre>
 *
 * @param permission Permission to check.
 * @return true if this DeploymentAdminPermission object implies the
 *         specified permission.
 * @see java.security.Permission#implies(java.security.Permission)
 * @see org.osgi.framework.Filter
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentAdminPermission))
        return false;

    DeploymentAdminPermission dap = (DeploymentAdminPermission) permission;

```

```

return delegate.implies(dap.delegate);
}

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentAdminPermission objects.
 *
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
return delegate.newPermissionCollection();
}

}

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to send alerts to management servers,
 * identified by their principal names.
 *
 * <p>
 * { @code AlertPermission} has a target string which controls the principal
 * names where alerts can be sent. A wildcard is allowed at the end of the
 * target string, to allow sending alerts to any principal with a name matching
 * the given prefix. The &quot;*&quot; target means that alerts can be sent to

```

```

* any destination.
*
* @author $Id: c6a01d2c5e33287b1fd6bf40fedca908e9ddd072 $
*/
public class AlertPermission extends Permission {
    private static final long serialVersionUID = -3206463101788245739L;

    // specifies whether the target string had a wildcard at the end
    private final boolean isPrefix;

    // the target string without the wildcard (if there was one)
    private final String serverId;

    /**
     * Creates a new { @code AlertPermission } object with its name set to the
     * target string. Name must be non-null and non-empty.
     *
     * @param target the name of a principal, can end with { @code * } to match
     *     any principal identifier with the given prefix
     * @throws NullPointerException if { @code name } is { @code null }
     * @throws IllegalArgumentException if { @code name } is empty
     */
    public AlertPermission(String target) {
        super(target);

        if (target == null)
            throw new NullPointerException("'target' parameter must not be null.");

        if (target.equals(""))
            throw new IllegalArgumentException("'target' parameter must not be empty.");

        isPrefix = target.endsWith("*");
        if (isPrefix)
            serverId = target.substring(0, target.length() - 1);
        else
            serverId = target;
    }

    /**
     * Creates a new { @code AlertPermission } object using the 'canonical' two
     * argument constructor. In this version this class does not define any
     * actions, the second argument of this constructor must be "*" so that this
     * class can later be extended in a backward compatible way.
     *
     * @param target the name of the server, can end with { @code * } to match any
     *     server identifier with the given prefix
     * @param actions no actions defined, must be "*" for forward compatibility
     * @throws NullPointerException if { @code name } or { @code actions } is

```

```

*      {@code null}
* @throws IllegalArgumentException if {@code name} is empty or
*      {@code actions} is not "*"
*/
public AlertPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    if (!actions.equals("*"))
        throw new IllegalArgumentException("'actions' parameter must be \"*\".");
}

/**
 * Checks whether the given object is equal to this AlertPermission
 * instance. Two AlertPermission instances are equal if they have the same
 * target string.
 *
 * @param obj the object to compare to this AlertPermission instance
 * @return {@code true} if the parameter represents the same permissions as
 *         this instance
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) obj;

    return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
 * Returns the action list (always {@code *} in the current version).
 *
 * @return the action string &quot;*&quot;
 */
public String getActions() {
    return "*";
}

/**
 * Returns the hash code for this permission object. If two AlertPermission
 * objects are equal according to the {@link #equals(Object)} method, then
 * calling this method on each of the two AlertPermission objects must

```

```

* produce the same integer result.
*
* @return hash code for this permission object
*/
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ serverId.hashCode();
}

/**
 * Checks if this AlertPermission object implies the specified permission.
 * Another AlertPermission instance is implied by this permission either if
 * the target strings are identical, or if this target can be made identical
 * to the other target by replacing a trailing " with any
 * string.
 *
 * @param p the permission to check for implication
 * @return true if this AlertPermission instance implies the specified
 *         permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) p;

    return impliesServer(other);
}

/**
 * Returns a new PermissionCollection object for storing AlertPermission
 * objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtAlertPermissionCollection();
}

/**
 * Returns true if the server name parameter of the given AlertPermission is
 * implied by the server name of this permission, i.e. this server name is a
 * prefix of the other one but ends with a *, or the two server names are
 * equal.
 */
boolean impliesServer(AlertPermission p) {
    return isPrefix ? p.serverId.startsWith(serverId) : !p.isPrefix && p.serverId.equals(serverId);
}
}

```

```

/**
 * Represents a homogeneous collection of AlertPermission objects.
 */
final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;

    private ArrayList perms;

    /**
     * Create an empty DmtAlertPermissionCollection object.
     */
    public DmtAlertPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtAlertPermissionCollection.
     *
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
     *         AlertPermission
     * @exception SecurityException if this DmtAlertPermissionCollection object
     *         has been marked readonly
     */
    public void add(Permission permission) {
        if (!(permission instanceof AlertPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");

        // only add new permission if it is not already implied by the
        // permissions in the collection
        if (!implies(permission)) {
            // remove all permissions that are implied by the new one
            Iterator i = perms.iterator();
            while (i.hasNext())
                if (permission.implies((AlertPermission) i.next()))
                    i.remove();

            // no need to synchronize because all adds are done sequentially
            // before any implies() calls
            perms.add(permission);
        }
    }
}
/**

```



```

* Check whether this set of permissions implies the permission specified in
* the parameter.
*
* @param permission the Permission object to compare
* @return true if the parameter permission is a proper subset of the
*       permissions in the collection, false otherwise
*/
public boolean implies(Permission permission) {
    if (!(permission instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((AlertPermission) i.next()).impliesServer(other))
            return true;

    return false;
}

/**
 * Returns an enumeration of all the AlertPermission objects in the
 * container. The returned value cannot be {@code null}.
 *
 * @return an enumeration of all the AlertPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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 * limitations under the License.
 */

```

```

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.StringTokenizer;
import org.osgi.service.dmt.Acl;
import org.osgi.service.dmt.Uri;

/**
 * Controls access to management objects in the Device Management Tree (DMT). It
 * is intended to control local access to the DMT. DmtPermission target string
 * identifies the management object URI and the action field lists the OMA DM
 * commands that are permitted on the management object. Example:
 *
 * <pre>
 * DmtPermission("OSGi/bundles", "Add,Replace,Get");
 * </pre>
 *
 * This means that owner of this permission can execute Add, Replace and Get
 * commands on the ./OSGi/bundles management object. It is possible to use
 * wildcards in both the target and the actions field. Wildcard in the target
 * field means that the owner of the permission can access children nodes of the
 * target node. Example:
 *
 * <pre>
 * DmtPermission("OSGi/bundles/*", "Get");
 * </pre>
 *
 * This means that owner of this permission has Get access on every child node
 * of ./OSGi/bundles. The asterix does not necessarily have to follow a '/'
 * character. For example the { @code "./OSGi/a*" } target matches the
 * { @code ./OSGi/applications } subtree.
 *
 * <p>
 * If wildcard is present in the actions field, all legal OMA DM commands are
 * allowed on the designated nodes(s) by the owner of the permission. Action
 * names are interpreted case-insensitively, but the canonical action string
 * returned by { @link #getActions() } uses the forms defined by the action
 * constants.
 *
 * @author $Id: 5fc6f3d37c4fac64313f532ad9bd9f07bc48dc39 $
 */
public class DmtPermission extends Permission {
    private static final long serialVersionUID = -1910969921419407809L;

```

```

/**
 * Holders of DmtPermission with the Add action present can create new nodes
 * in the DMT, that is they are authorized to execute the
 * createInteriorNode() and createLeafNode() methods of the DmtSession. This
 * action is also required for the copy() command, which needs to perform
 * node creation operations (among others).
 */
public static final String ADD    = "Add";

/**
 * Holders of DmtPermission with the Delete action present can delete nodes
 * from the DMT, that is they are authorized to execute the deleteNode()
 * method of the DmtSession.
 */
public static final String DELETE = "Delete";

/**
 * Holders of DmtPermission with the Exec action present can execute nodes
 * in the DMT, that is they are authorized to call the execute() method of
 * the DmtSession.
 */
public static final String EXEC   = "Exec";

/**
 * Holders of DmtPermission with the Get action present can query DMT node
 * value or properties, that is they are authorized to execute the
 * isLeafNode(), getNodeAcl(), getEffectiveNodeAcl(), getMetaNode(),
 * getNodeValue(), getChildNodeNames(), getNodeTitle(), getNodeVersion(),
 * getNodeTimeStamp(), getNodeSize() and getNodeType() methods of the
 * DmtSession. This action is also required for the copy() command, which
 * needs to perform node query operations (among others).
 */
public static final String GET    = "Get";

/**
 * Holders of DmtPermission with the Replace action present can update DMT
 * node value or properties, that is they are authorized to execute the
 * setNodeAcl(), setNodeTitle(), setNodeValue(), setNodeType() and
 * renameNode() methods of the DmtSession. This action is also be required
 * for the copy() command if the original node had a title property (which
 * must be set in the new node).
 */
public static final String REPLACE = "Replace";

// does this permission have a wildcard at the end?
private final boolean  prefixPath;

// the name without the wildcard on the end

```

```

private final String path;

// the actions mask
private final int mask;

// the canonical action string (redundant)
private final String actions;

/**
 * Creates a new DmtPermission object for the specified DMT URI with the
 * specified actions. The given URI can be:
 * <ul>
 * <li> { @code "*" }, which matches all valid (see
 * { @link Uri#isValidUri(String) }) absolute URIs;</li>
 * <li>the prefix of an absolute URI followed by the { @code * } character
 * (for example { @code "./OSGi/L*"}), which matches all valid absolute URIs
 * beginning with the given prefix;</li>
 * <li>a valid absolute URI, which matches itself.</li>
 * </ul>
 * <p>
 * Since the { @code * } character is itself a valid URI character, it can
 * appear as the last character of a valid absolute URI. To distinguish this
 * case from using { @code * } as a wildcard, the { @code * } character at the
 * end of the URI must be escaped with the { @code \ } character. For example
 * the URI { @code "./a*"} matches { @code "./a"}, { @code "./aa"},
 * { @code "./a/b"} etc. while { @code "./a\*"} matches { @code "./a*"} only.
 * <p>
 * The actions string must either be "*" to allow all actions, or it must
 * contain a non-empty subset of the valid actions, defined as constants in
 * this class.
 *
 * @param dmtUri URI of the management object (or subtree)
 * @param actions OMA DM actions allowed
 * @throws NullPointerException if any of the parameters are { @code null }
 * @throws IllegalArgumentException if any of the parameters are invalid
 */
public DmtPermission(String dmtUri, String actions) {
    super(dmtUri);
    mask = getMask(actions);
    this.actions = canonicalActions(mask);

    if (dmtUri == null)
        throw new NullPointerException("'dmtUri' parameter must not be " + "null.");

    prefixPath = dmtUri.endsWith("*") && !dmtUri.endsWith("\\*");

    if (prefixPath) {
        dmtUri = dmtUri.substring(0, dmtUri.length() - 1);
    }
}

```

```

// the single "*" as dmtUri is the only valid non-absolute URI param
if (dmtUri.length() == 0) {
    path = "";
    return;
}
}

// if URI ends with "/*", remove it before the validity check
if (prefixPath && dmtUri.endsWith("/") && !dmtUri.endsWith("\\\\"))
    checkUri(dmtUri.substring(0, dmtUri.length() - 1));
else
    checkUri(dmtUri);

// canonicalize URI: remove escapes from non-special characters
StringBuffer sb = new StringBuffer(dmtUri);
int i = 0;
while (i < sb.length()) { // length can decrease during the loop!
    if (sb.charAt(i) == '\\') {
        // there must be a next character after a '\' in a valid URI
        char nextCh = sb.charAt(i + 1);
        if (nextCh != '/' && nextCh != '\\')
            sb.deleteCharAt(i); // remove the extra '\'
        else
            i++;
    }
    i++;
}
path = sb.toString();
}

private void checkUri(String dmtUri) throws IllegalArgumentException {
    if (!Uri.isValidUri(dmtUri))
        throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain a valid URI.");

    if (!Uri.isAbsoluteUri(dmtUri))
        throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain an absolute URI.");
}

/**
 * Checks whether the given object is equal to this DmtPermission instance.
 * Two DmtPermission instances are equal if they have the same target string
 * and the same action mask. The "*" action mask is considered equal to a
 * mask containing all actions.
 *
 * @param obj the object to compare to this DmtPermission instance
 * @return { @code true } if the parameter represents the same permissions as
 *         this instance

```

```

*/
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof DmtPermission))
        return false;

    DmtPermission other = (DmtPermission) obj;

    return mask == other.mask && prefixPath == other.prefixPath && path.equals(other.path);
}

/**
 * Returns the String representation of the action list. The allowed actions
 * are listed in the following order: Add, Delete, Exec, Get, Replace. The
 * wildcard character is not used in the returned string, even if the class
 * was created using the "*" wildcard.
 *
 * @return canonical action list for this permission object
 */
public String getActions() {
    return actions;
}

/**
 * Returns the hash code for this permission object. If two DmtPermission
 * objects are equal according to the {@link #equals(Object)} method, then
 * calling this method on each of the two DmtPermission objects must produce
 * the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Integer(mask).hashCode() ^ new Boolean(prefixPath).hashCode() ^ path.hashCode();
}

/**
 * Checks if this DmtPermission object &quot;implies&quot; the specified
 * permission. This method returns {@code false} if and only if at least one
 * of the following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a DmtPermission</li>
 * <li>its set of actions contains an action not allowed by this permission</li>
 * <li>the set of nodes defined by its path contains a node not defined by
 * the path of this permission</li>
 * </ul>
 */

```

```

* @param p the permission to check for implication
* @return true if this DmtPermission instance implies the specified
*     permission
*/
public boolean implies(Permission p) {
    if (!(p instanceof DmtPermission))
        return false;

    DmtPermission other = (DmtPermission) p;

    if ((mask & other.mask) != other.mask)
        return false;

    return impliesPath(other);
}

/**
 * Returns a new PermissionCollection object for storing DmtPermission
 * objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPermissionCollection();
}

// parses the given action string, and returns the corresponding action mask
private static int getMask(String actions) {
    int mask = 0;

    if (actions == null)
        throw new NullPointerException("'actions' parameter cannot be null.");

    if (actions.equals(""))
        return Acl.ALL_PERMISSION;

    // empty tokens (swallowed by StringTokenizer) are not considered errors
    StringTokenizer st = new StringTokenizer(actions, "");
    while (st.hasMoreTokens()) {
        String action = st.nextToken().trim();
        if (action.equalsIgnoreCase(GET)) {
            mask |= Acl.GET;
        } else
        if (action.equalsIgnoreCase(ADD)) {
            mask |= Acl.ADD;
        } else
        if (action.equalsIgnoreCase(REPLACE)) {
            mask |= Acl.REPLACE;
        }
    }
}

```

```

    } else
    if (action.equalsIgnoreCase(DELETE)) {
        mask |= Acl.DELETE;
    } else
    if (action.equalsIgnoreCase(EXEC)) {
        mask |= Acl.EXEC;
    } else
        throw new IllegalArgumentException("Invalid action '" + action + "'");
}

if (mask == 0)
    throw new IllegalArgumentException("Action mask cannot be empty.");

return mask;
}

// generates the canonical string representation of the action list
private static String canonicalActions(int mask) {
    StringBuffer sb = new StringBuffer();
    addAction(sb, mask, Acl.ADD, ADD);
    addAction(sb, mask, Acl.DELETE, DELETE);
    addAction(sb, mask, Acl.EXEC, EXEC);
    addAction(sb, mask, Acl.GET, GET);
    addAction(sb, mask, Acl.REPLACE, REPLACE);
    return sb.toString();
}

// if 'flag' appears in 'mask', appends the 'action' string to the contents
// of 'sb', separated by a comma if needed
private static void addAction(StringBuffer sb, int mask, int flag, String action) {
    if ((mask & flag) != 0) {
        if (sb.length() > 0)
            sb.append(',');
        sb.append(action);
    }
}

// used by DmtPermissionCollection to retrieve the action mask
int getMask() {
    return mask;
}

// returns true if the path parameter of the given DmtPermission is
// implied by the path of this permission, i.e. this path is a prefix of the
// other path, but ends with a *, or the two path strings are equal
boolean impliesPath(DmtPermission p) {
    return prefixPath ? p.path.startsWith(path) : !p.prefixPath && p.path.equals(path);
}

```



```

}

/**
 * Represents a homogeneous collection of DmtPermission objects.
 */
final class DmtPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -4172481774562012941L;

    // OPTIMIZE keep a special flag for permissions of "*" path

    private ArrayList perms;

    /**
     * Create an empty DmtPermissionCollection object.
     */
    public DmtPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtPermissionCollection.
     *
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
     *         DmtPermission
     * @exception SecurityException if this DmtPermissionCollection object has
     *         been marked readonly
     */
    public void add(Permission permission) {
        if (!(permission instanceof DmtPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, collection is marked read-only.");

        // No need to synchronize because all adds are done sequentially
        // before any implies() calls
        perms.add(permission);
    }

    /**
     * Check whether this set of permissions implies the permission specified in
     * the parameter.
     *
     * @param permission the Permission object to compare
     * @return true if the parameter permission is a proper subset of the
     *         permissions in the collection, false otherwise
     */
    public boolean implies(Permission permission) {

```

```

if (!(permission instanceof DmtPermission))
    return false;

DmtPermission other = (DmtPermission) permission;

int required = other.getMask();
int available = 0;
int needed = required;

Iterator i = perms.iterator();
while (i.hasNext()) {
    DmtPermission p = (DmtPermission) i.next();
    if (((needed & p.getMask()) != 0) && p.impliesPath(other)) {
        available |= p.getMask();
        if ((available & required) == required)
            return true;
        needed = (required ^ available);
    }
}

return false;
}

/**
 * Returns an enumeration of all the DmtPermission objects in the container.
 * The returned value cannot be { @code null }.
 *
 * @return an enumeration of all the DmtPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}
}

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 * limitations under the License.

```

```

*/

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to create DMT sessions on behalf of a remote
 * management server. Only protocol adapters communicating with management
 * servers should be granted this permission.
 * <p>
 * { @code DmtPrincipalPermission } has a target string which controls the name of
 * the principal on whose behalf the protocol adapter can act. A wildcard is
 * allowed at the end of the target string, to allow using any principal name
 * with the given prefix. The &quot;*&quot; target means the adapter can create
 * a session in the name of any principal.
 *
 * @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $
 */
public class DmtPrincipalPermission extends Permission {
    private static final long serialVersionUID = 6388752177325038332L;

    // specifies whether the target string had a wildcard at the end
    private final boolean isPrefix;

    // the target string without the wildcard (if there was one)
    private final String principal;

    /**
     * Creates a new { @code DmtPrincipalPermission } object with its name set to
     * the target string. Name must be non-null and non-empty.
     *
     * @param target the name of the principal, can end with { @code * } to match
     * any principal with the given prefix
     * @throws NullPointerException if { @code name } is { @code null }
     * @throws IllegalArgumentException if { @code name } is empty
     */
    public DmtPrincipalPermission(String target) {
        super(target);

        if (target == null)
            throw new NullPointerException("'target' parameter must not be null.");
    }

```

```

if (target.equals(""))
    throw new IllegalArgumentException("'target' parameter must not be empty.");

isPrefix = target.endsWith("*");
if (isPrefix)
    principal = target.substring(0, target.length() - 1);
else
    principal = target;
}

/**
 * Creates a new { @code DmtPrincipalPermission } object using the 'canonical'
 * two argument constructor. In this version this class does not define any
 * actions, the second argument of this constructor must be "*" so that this
 * class can later be extended in a backward compatible way.
 *
 * @param target the name of the principal, can end with { @code * } to match
 *     any principal with the given prefix
 * @param actions no actions defined, must be "*" for forward compatibility
 * @throws NullPointerException if { @code name } or { @code actions } is
 *     { @code null }
 * @throws IllegalArgumentException if { @code name } is empty or
 *     { @code actions } is not "*"
 */
public DmtPrincipalPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    if (!actions.equals("*"))
        throw new IllegalArgumentException("'actions' parameter must be \"*\".");
}

/**
 * Checks whether the given object is equal to this DmtPrincipalPermission
 * instance. Two DmtPrincipalPermission instances are equal if they have the
 * same target string.
 *
 * @param obj the object to compare to this DmtPrincipalPermission instance
 * @return { @code true } if the parameter represents the same permissions as
 *     this instance
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof DmtPrincipalPermission))

```

```

return false;

DmtPrincipalPermission other = (DmtPrincipalPermission) obj;

return isPrefix == other.isPrefix && principal.equals(other.principal);
}

/**
 * Returns the action list (always {@code *} in the current version).
 *
 * @return the action string &quot;*&quot;
 */
public String getActions() {
    return "*";
}

/**
 * Returns the hash code for this permission object. If two
 * DmtPrincipalPermission objects are equal according to the
 * {@link #equals(Object)} method, then calling this method on each of the
 * two DmtPrincipalPermission objects must produce the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ principal.hashCode();
}

/**
 * Checks if this DmtPrincipalPermission object implies the specified
 * permission. Another DmtPrincipalPermission instance is implied by this
 * permission either if the target strings are identical, or if this target
 * can be made identical to the other target by replacing a trailing
 * &quot;*&quot; with any string.
 *
 * @param p the permission to check for implication
 * @return true if this DmtPrincipalPermission instance implies the
 *         specified permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) p;

    return impliesPrincipal(other);
}

```

```

/**
 * Returns a new PermissionCollection object for storing
 * DmtPrincipalPermission objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPrincipalPermissionCollection();
}

/**
 * Returns true if the principal parameter of the given
 * DmtPrincipalPermission is implied by the principal of this permission,
 * i.e. this principal is a prefix of the other principal but ends with a *,
 * or the two principal strings are equal.
 */
boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
}
}

/**
 * Represents a homogeneous collection of DmtPrincipalPermission objects.
 */
final class DmtPrincipalPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -6692103535775802684L;

    private ArrayList perms;

    /**
     * Create an empty DmtPrincipalPermissionCollection object.
     */
    public DmtPrincipalPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtPrincipalPermissionCollection.
     *
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
     *         DmtPrincipalPermission
     * @exception SecurityException if this DmtPrincipalPermissionCollection
     *         object has been marked readonly
     */
    public void add(Permission permission) {
        if (!(permission instanceof DmtPrincipalPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    }
}

```

```

if (isReadOnly())
    throw new SecurityException("Cannot add permission, collection is marked read-only.");

// only add new permission if it is not already implied by the
// permissions in the collection
if (!implies(permission)) {
    // remove all permissions that are implied by the new one
    Iterator i = perms.iterator();
    while (i.hasNext())
        if (permission.implies((DmtPrincipalPermission) i.next()))
            i.remove();

    // no need to synchronize because all adds are done sequentially
    // before any implies() calls
    perms.add(permission);
}
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((DmtPrincipalPermission) i.next()).impliesPrincipal(other))
            return true;

    return false;
}

/**
 * Returns an enumeration of all the DmtPrincipalPermission objects in the
 * container. The returned value cannot be {@code null}.
 *
 * @return an enumeration of all the DmtPrincipalPermission objects
 */
public Enumeration elements() {

```

```

// Convert Iterator into Enumeration
return Collections.enumeration(perms);
}
}
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.osgi.service.dmt;

/**
 * Unchecked illegal state exception. This class is used in DMT because
 * java.lang.IllegalStateException does not exist in CLDC.
 *
 * @author $Id: ab7441ab9ccea82894de416498a66b9376001581 $
 */
public class DmtIllegalStateException extends RuntimeException {
    private static final long serialVersionUID = 2015244852018469700L;

    /**
     * Create an instance of the exception with no message.
     */
    public DmtIllegalStateException() {
        super();
    }

    /**
     * Create an instance of the exception with the specified message.
     *
     * @param message the reason for the exception
     */
    public DmtIllegalStateException(String message) {
        super(message);
    }
}

/**

```



```

* Create an instance of the exception with the specified cause exception
* and no message.
*
* @param cause the cause of the exception
*/
public DmtIllegalStateException(Throwable cause) {
    super(cause);
}

/**
* Create an instance of the exception with the specified message and cause
* exception.
*
* @param message the reason for the exception
* @param cause the cause of the exception
*/
public DmtIllegalStateException(String message, Throwable cause) {
    super(message, cause);
}
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

package org.osgi.service.event;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;

```

```

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

/**
 * A bundle's authority to publish or subscribe to event on a topic.
 *
 * <p>
 * A topic is a slash-separated string that defines a topic.
 * <p>
 * For example:
 *
 * <pre>
 * org/osgi/service/foo/FooEvent/ACTION
 * </pre>
 *
 * <p>
 * { @code TopicPermission } has two actions: { @code publish } and
 * { @code subscribe }.
 *
 * @ThreadSafe
 * @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
 */
public final class TopicPermission extends Permission {
    static final long serialVersionUID = -5855563886961618300L;
    /**
     * The action string { @code publish }.
     */
    public final static String PUBLISH = "publish";
    /**
     * The action string { @code subscribe }.
     */
    public final static String SUBSCRIBE = "subscribe";
    private final static int ACTION_PUBLISH = 0x00000001;
    private final static int ACTION_SUBSCRIBE = 0x00000002;
    private final static int ACTION_ALL = ACTION_PUBLISH | ACTION_SUBSCRIBE;
    private final static int ACTION_NONE = 0;
    /**
     * The actions mask.
     */
    private transient int action_mask;

    /**
     * prefix if the name is wildcarded.
     */
    private transient volatile String prefix;

    /**

```

```

* The actions in canonical form.
*
* @serial
*/
private volatile String actions = null;

/**
 * Defines the authority to publish and/or subscribe to a topic within the
 * EventAdmin service.
 * <p>
 * The name is specified as a slash-separated string. Wildcards may be used.
 * For example:
 *
 * <pre>
 * org/osgi/service/fooFooEvent/ACTION
 * com/isv/*
 * *
 * </pre>
 *
 * <p>
 * A bundle that needs to publish events on a topic must have the
 * appropriate { @code TopicPermission } for that topic; similarly, a bundle
 * that needs to subscribe to events on a topic must have the appropriate
 * { @code TopicPermssion } for that topic.
 * <p>
 *
 * @param name Topic name.
 * @param actions { @code publish },{ @code subscribe } (canonical order).
 */
public TopicPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by TopicPermissionCollection.
 *
 * @param name class name
 * @param mask action mask
 */
TopicPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param name topic name

```

```

* @param mask action mask
*/
private synchronized void setTransients(final int mask) {
    final String name = getName();
    if ((name == null) || name.length() == 0) {
        throw new IllegalArgumentException("invalid name");
    }

    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;

    if (name.equals("*")) {
        prefix = "";
    } else {
        if (name.endsWith("/")) {
            prefix = name.substring(0, name.length() - 1);
        } else {
            prefix = null;
        }
    }
}

/**
 * Returns the current action mask.
 * <p>
 * Used by the TopicPermissionCollection class.
 *
 * @return Current action mask.
 */
synchronized int getActionsMask() {
    return action_mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(final String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();

```

```

int i = a.length - 1;
if (i < 0)
    return mask;
while (i != -1) {
    char c;
    // skip whitespace
    while ((i != -1) && ((c = a[i]) == ' ' || c == '\r' || c == '\n' || c == '\f' || c == '\t'))
        i--;
    // check for the known strings
    int matchlen;
    if (i >= 8 && (a[i - 8] == 's' || a[i - 8] == 'S')
        && (a[i - 7] == 'u' || a[i - 7] == 'U')
        && (a[i - 6] == 'b' || a[i - 6] == 'B')
        && (a[i - 5] == 's' || a[i - 5] == 'S')
        && (a[i - 4] == 'c' || a[i - 4] == 'C')
        && (a[i - 3] == 'r' || a[i - 3] == 'R')
        && (a[i - 2] == 'i' || a[i - 2] == 'I')
        && (a[i - 1] == 'b' || a[i - 1] == 'B')
        && (a[i] == 'e' || a[i] == 'E')) {
        matchlen = 9;
        mask |= ACTION_SUBSCRIBE;
    }
    else
        if (i >= 6 && (a[i - 6] == 'p' || a[i - 6] == 'P')
            && (a[i - 5] == 'u' || a[i - 5] == 'U')
            && (a[i - 4] == 'b' || a[i - 4] == 'B')
            && (a[i - 3] == 'l' || a[i - 3] == 'L')
            && (a[i - 2] == 'i' || a[i - 2] == 'I')
            && (a[i - 1] == 's' || a[i - 1] == 'S')
            && (a[i] == 'h' || a[i] == 'H')) {
            matchlen = 7;
            mask |= ACTION_PUBLISH;
        }
        else {
            // parse error
            throw new IllegalArgumentException("invalid permission: "
                + actions);
        }
    // make sure we didn't just match the tail of a word
    // like "ackbarfpublish". Also, skip to the comma.
    seencomma = false;
    while (i >= matchlen && !seencomma) {
        switch (a[i - matchlen]) {
            case ',':
                seencomma = true;
                /* FALLTHROUGH */
            case ' ':
            case '\r':

```

```

    case 'n' :
    case 'f' :
    case 't' :
        break;
    default :
        throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
}
// point i at the location of the comma minus one (or -1).
i -= matchlen;
}
if (seencomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}
return mask;
}

/**
 * Determines if the specified permission is implied by this object.
 *
 * <p>
 * This method checks that the topic name of the target is implied by the
 * topic name of this object. The list of {@code TopicPermission} actions
 * must either match or allow for the list of the target object to imply the
 * target {@code TopicPermission} action.
 *
 * <pre>
 * x/y/*,&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is true
 * *,&quot;subscribe&quot; -&gt; x/y,&quot;subscribe&quot; is true
 * *,&quot;publish&quot; -&gt; x/y,&quot;subscribe&quot; is false
 * x/y,&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is false
 * </pre>
 *
 * @param p The target permission to interrogate.
 * @return {@code true} if the specified {@code TopicPermission} action is
 *         implied by this object; {@code false} otherwise.
 */
public boolean implies(Permission p) {
    if (p instanceof TopicPermission) {
        TopicPermission requested = (TopicPermission) p;
        int requestedMask = requested.getActionsMask();
        if ((getActionsMask() & requestedMask) == requestedMask) {
            String requestedName = requested.getName();
            String pre = prefix;
            if (pre != null) {
                return requestedName.startsWith(pre);
            }
        }
    }
}

```

```

    return requestedName.equals(getName());
}
}
return false;
}

/**
 * Returns the canonical string representation of the
 * {@code TopicPermission} actions.
 *
 * <p>
 * Always returns present {@code TopicPermission} actions in the following
 * order: {@code publish},{@code subscribe}.
 *
 * @return Canonical string representation of the {@code TopicPermission}
 *         actions.
 */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;
        int mask = getActionsMask();
        if ((mask & ACTION_PUBLISH) == ACTION_PUBLISH) {
            sb.append(PUBLISH);
            comma = true;
        }
        if ((mask & ACTION_SUBSCRIBE) == ACTION_SUBSCRIBE) {
            if (comma)
                sb.append(',');
            sb.append(SUBSCRIBE);
        }
        actions = result = sb.toString();
    }
    return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * {@code TopicPermission} objects.
 *
 * @return A new {@code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new TopicPermissionCollection();
}
}

```

```

/**
 * Determines the equality of two {@code TopicPermission} objects.
 *
 * This method checks that specified {@code TopicPermission} has the same
 * topic name and actions as this {@code TopicPermission} object.
 *
 * @param obj The object to test for equality with this
 *     {@code TopicPermission} object.
 * @return {@code true} if {@code obj} is a {@code TopicPermission}, and has
 *     the same topic name and actions as this {@code TopicPermission}
 *     object; {@code false} otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof TopicPermission)) {
        return false;
    }
    TopicPermission tp = (TopicPermission) obj;
    return (getActionsMask() == tp.getActionsMask()) && getName().equals(tp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**

```



```

* readObject is called to restore the state of this permission from a
* stream.
*/
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseActions(actions));
}
}

/**
 * Stores a set of {@code TopicPermission} permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class TopicPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -614647783533924048L;
    /**
     * Table of permissions.
     *
     * @GuardedBy this
     */
    private transient Map<String, TopicPermission> permissions;
    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;

    /**
     * Create an empty TopicPermissions object.
     *
     */
    public TopicPermissionCollection() {
        permissions = new HashMap<String, TopicPermission>();
        all_allowed = false;
    }

    /**
     * Adds a permission to the {@code TopicPermission} objects. The key for the
     * hash is the name.
     *
     * @param permission The {@code TopicPermission} object to add.
     *
     */

```

```

* @throws IllegalArgumentException If the permission is not a
*     {@code TopicPermission} instance.
*
* @throws SecurityException If this {@code TopicPermissionCollection}
*     object has been marked read-only.
*/
public void add(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    }
    final TopicPermission tp = (TopicPermission) permission;
    final String name = tp.getName();
    final int newMask = tp.getActionsMask();

    synchronized (this) {
        final TopicPermission existing = permissions.get(name);
        if (existing != null) {
            final int oldMask = existing.getActionsMask();
            if (oldMask != newMask) {
                permissions.put(name, new TopicPermission(name, oldMask | newMask));
            }
        } else {
            permissions.put(name, tp);
        }
        if (!all_allowed) {
            if (name.equals("*"))
                all_allowed = true;
        }
    }
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in {@code permission}.
 *
 * @param permission The Permission object to compare with this
 *     {@code TopicPermission} object.
 *
 * @return {@code true} if {@code permission} is a proper subset of a
 *     permission in the set; {@code false} otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        return false;
    }
}

```

```

final TopicPermission requested = (TopicPermission) permission;
String name = requested.getName();
final int desired = requested.getActionsMask();
int effective = 0;

TopicPermission x;
// short circuit if the "*" Permission was added
synchronized (this) {
    if (all_allowed) {
        x = permissions.get("*");
        if (x != null) {
            effective |= x.getActionsMask();
            if ((effective & desired) == desired) {
                return true;
            }
        }
    }
    x = permissions.get(name);
}
// strategy:
// Check for full match first. Then work our way up the
// name looking for matches on a/b/*
if (x != null) {
    // we have a direct hit!
    effective |= x.getActionsMask();
    if ((effective & desired) == desired) {
        return true;
    }
}
// work our way up the tree...
int last;
int offset = name.length() - 1;
while ((last = name.lastIndexOf("/", offset)) != -1) {
    name = name.substring(0, last + 1) + "*";
    synchronized (this) {
        x = permissions.get(name);
    }
    if (x != null) {
        effective |= x.getActionsMask();
        if ((effective & desired) == desired) {
            return true;
        }
    }
    offset = last - 1;
}
// we don't have to check for "*" as it was already checked
// at the top (all_allowed), so we just return false
return false;

```

```

}

/**
 * Returns an enumeration of all {@code TopicPermission} objects in the
 * container.
 *
 * @return Enumeration of all {@code TopicPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectOutputStreamField[] serialPersistentFields = {new ObjectOutputStreamField("permissions",
Hashtable.class), new ObjectOutputStreamField("all_allowed", Boolean.TYPE)};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    Hashtable<String, TopicPermission> hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException
{
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions",
null);
    permissions = new HashMap<String, TopicPermission>(hashtable);
    all_allowed = gfields.get("all_allowed", false);
}
}
/**
 * Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.

```

```

*/

package org.osgi.service.monitor;

import java.io.UnsupportedEncodingException;
import java.security.Permission;
import java.util.StringTokenizer;

/**
 * Indicates the callers authority to publish, read or reset
 * { @code StatusVariable}s, to switch event sending on or off or to start
 * monitoring jobs. The target of the permission is the identifier of the
 * { @code StatusVariable}, the action can be { @code read}, { @code publish},
 * { @code reset}, { @code startjob}, { @code switchevents}, or the combination of
 * these separated by commas. Action names are interpreted case-insensitively,
 * but the canonical action string returned by { @link #getActions()} uses the
 * forms defined by the action constants.
 * <p>
 * If the wildcard { @code *} appears in the actions field, all legal monitoring
 * commands are allowed on the designated target(s) by the owner of the
 * permission.
 *
 * @author $Id: 2899bf825eb4b7708601d99fb39019087deddefb $
 */
public class MonitorPermission extends Permission {

    /**
     *
     */
    private static final long serialVersionUID = -9084425194463274314L;

    /**
     * Holders of { @code MonitorPermission} with the { @code read} action present
     * are allowed to read the value of the { @code StatusVariable}s specified in
     * the permission's target field.
     */
    public static final String READ = "read";

    /**
     * Holders of { @code MonitorPermission} with the { @code reset} action
     * present are allowed to reset the value of the { @code StatusVariable}s
     * specified in the permission's target field.
     */
    public static final String RESET = "reset";

    /**
     * Holders of { @code MonitorPermission} with the { @code publish} action
     * present are { @code Monitorable} services that are allowed to publish the

```

```

* {@code StatusVariable}s specified in the permission's target field. Note,
* that this permission cannot be enforced when a {@code Monitorable}
* registers to the framework, because the Service Registry does not know
* about this permission. Instead, any {@code StatusVariable}s published by
* a {@code Monitorable} without the corresponding {@code publish}
* permission are silently ignored by {@code MonitorAdmin}, and are
* therefore invisible to the users of the monitoring service.
*/
public static final String PUBLISH = "publish";

/**
 * Holders of {@code MonitorPermission} with the {@code startjob} action
 * present are allowed to initiate monitoring jobs involving the
 * {@code StatusVariable}s specified in the permission's target field.
 * <p>
 * A minimal sampling interval can be optionally defined in the following
 * form: {@code startjob:n}. This allows the holder of the permission to
 * initiate time based jobs with a measurement interval of at least
 * {@code n} seconds. If {@code n} is not specified or 0 then the holder of
 * this permission is allowed to start monitoring jobs specifying any
 * frequency.
 */
public static final String STARTJOB = "startjob";

/**
 * Holders of {@code MonitorPermission} with the {@code switchevents} action
 * present are allowed to switch event sending on or off for the value of
 * the {@code StatusVariable}s specified in the permission's target field.
 */
public static final String SWITCHEVENTS = "switchevents";

private static final int READ_FLAG = 0x1;
private static final int RESET_FLAG = 0x2;
private static final int PUBLISH_FLAG = 0x4;
private static final int STARTJOB_FLAG = 0x8;
private static final int SWITCHEVENTS_FLAG = 0x10;

private static final int ALL_FLAGS = READ_FLAG | RESET_FLAG | PUBLISH_FLAG | STARTJOB_FLAG |
SWITCHEVENTS_FLAG;

private String monId;
private String varId;
private boolean prefixMonId;
private boolean prefixVarId;
private int mask;
private int minJobInterval;

/**

```

```

* Create a { @code MonitorPermission } object, specifying the target and
* actions.
* <p>
* The { @code statusVariable } parameter is the target of the permission,
* defining one or more status variable names to which the specified actions
* apply. Multiple status variable names can be selected by using the
* wildcard { @code * } in the target string. The wildcard is allowed in both
* fragments, but only at the end of the fragments.
* <p>
* For example, the following targets are valid:
* { @code com.mycomp.myapp/queue_length }, { @code com.mycomp.myapp/* },
* <code>com.mycomp.&#42;/*</code>, <code>&#42;/*</code>,
* <code>&#42;/queue_length</code>, <code>&#42;/queue*</code>.
* <p>
* The following targets are invalid: { @code *.myapp/queue_length },
* { @code com.*.myapp/* }, { @code * }.
* <p>
* The { @code actions } parameter specifies the allowed action(s):
* { @code read }, { @code publish }, { @code startjob }, { @code reset },
* { @code switchevents }, or the combination of these separated by commas.
* String constants are defined in this class for each valid action. Passing
* { @code "*" } as the action string is equivalent to listing all actions.
*
* @param statusVariable the identifier of the { @code StatusVariable } in
*   [Monitorable_id]/[StatusVariable_id] format
* @param actions the list of allowed actions separated by commas, or
*   { @code * } for all actions
* @throws java.lang.IllegalArgumentException if either parameter is
*   { @code null }, or invalid with regard to the constraints defined
*   above and in the documentation of the used actions
*/
public MonitorPermission(String statusVariable, String actions) throws IllegalArgumentException {
    super(statusVariable);

```

```

    if (statusVariable == null)
        throw new IllegalArgumentException("Invalid StatusVariable path 'null'.");

```

```

    if (actions == null)
        throw new IllegalArgumentException("Invalid actions string 'null'.");

```

```

    int sep = statusVariable.indexOf('/');
    int len = statusVariable.length();

```

```

    if (sep == -1)
        throw new IllegalArgumentException("Invalid StatusVariable path: should contain '/' separator.");

```

```

    if (sep == 0 || sep == statusVariable.length() - 1)
        throw new IllegalArgumentException("Invalid StatusVariable path: empty monitorable ID or StatusVariable name.");

```

```

prefixMonId = statusVariable.charAt(sep - 1) == '*';
prefixVarId = statusVariable.charAt(len - 1) == '*';

monId = statusVariable.substring(0, prefixMonId ? sep - 1 : sep);
varId = statusVariable.substring(sep + 1, prefixVarId ? len - 1 : len);

checkId(monId, "Monitorable ID part of the target");
checkId(varId, "Status Variable ID part of the target");

minJobInterval = 0;

if (actions.equals("*"))
    mask = ALL_FLAGS;
else {
    mask = 0;
    StringTokenizer st = new StringTokenizer(actions, ",");
    while (st.hasMoreTokens()) {
        String action = st.nextToken().trim();
        if (action.equalsIgnoreCase(READ)) {
            addToMask(READ_FLAG, READ);
        } else
        if (action.equalsIgnoreCase(RESET)) {
            addToMask(RESET_FLAG, RESET);
        } else
        if (action.equalsIgnoreCase(PUBLISH)) {
            addToMask(PUBLISH_FLAG, PUBLISH);
        } else
        if (action.equalsIgnoreCase(SWITCHEVENTS)) {
            addToMask(SWITCHEVENTS_FLAG, SWITCHEVENTS);
        } else
        if (action.toLowerCase().startsWith(STARTJOB)) {
            minJobInterval = 0;

            int slen = STARTJOB.length();
            if (action.length() != slen) {
                if (action.charAt(slen) != ':')
                    throw new IllegalArgumentException("Invalid action '" + action + "'");

                try {
                    minJobInterval = Integer.parseInt(action.substring(slen + 1));
                } catch (NumberFormatException e) {
                    throw new IllegalArgumentException("Invalid parameter in startjob action '" + action + "'");
                }
            }
            addToMask(STARTJOB_FLAG, STARTJOB);
        } else
            throw new IllegalArgumentException("Invalid action '" + action + "'");
    }
}

```



```

    }
    }
}

private void addToMask(int action, String actionString) {
    if ((mask & action) != 0)
        throw new IllegalArgumentException("Invalid action string: " + actionString + " appears multiple times.");

    mask |= action;
}

private void checkId(String id, String idName) throws IllegalArgumentException {

    byte[] nameBytes;
    try {
        nameBytes = id.getBytes("UTF-8");
    } catch (UnsupportedEncodingException e) {
        // never happens, "UTF-8" must always be supported
        throw new IllegalStateException(e.getMessage());
    }
    if (nameBytes.length > StatusVariable.MAX_ID_LENGTH)
        throw new IllegalArgumentException(idName + " is too long (over " + StatusVariable.MAX_ID_LENGTH + "
bytes in UTF-8 encoding).");

    if (id.equals(".") || id.equals(".."))
        throw new IllegalArgumentException(idName + " is invalid.");

    char[] chars = id.toCharArray();
    for (int i = 0; i < chars.length; i++)
        if (StatusVariable.SYMBOLIC_NAME_CHARACTERS.indexOf(chars[i]) == -1)
            throw new IllegalArgumentException(idName + " contains invalid characters.");
}

/**
 * Create an integer hash of the object. The hash codes of
 * {@code MonitorPermission}s {@code p1} and {@code p2} are the same if
 * {@code p1.equals(p2)}.
 *
 * @return the hash of the object
 */
public int hashCode() {
    return new Integer(mask).hashCode() ^ new Integer(minJobInterval).hashCode() ^ monId.hashCode() ^ new
Boolean(prefixMonId).hashCode() ^ varId.hashCode() ^ new Boolean(prefixVarId).hashCode();
}

/**
 * Determines the equality of two {@code MonitorPermission} objects. Two
 * {@code MonitorPermission} objects are equal if their target strings are

```

```

* equal and the same set of actions are listed in their action strings.
*
* @param o the object being compared for equality with this object
* @return { @code true } if the two permissions are equal
*/
public boolean equals(Object o) {
    if (!(o instanceof MonitorPermission))
        return false;

    MonitorPermission other = (MonitorPermission) o;

    return mask == other.mask && minJobInterval == other.minJobInterval && monId.equals(other.monId) &&
    prefixMonId == other.prefixMonId && varId.equals(other.varId)
        && prefixVarId == other.prefixVarId;
}

/**
 * Get the action string associated with this permission. The actions are
 * returned in the following order: { @code read }, { @code reset },
 * { @code publish }, { @code startjob }, { @code switchevents }.
 *
 * @return the allowed actions separated by commas, cannot be { @code null }
 */
public String getActions() {
    StringBuffer sb = new StringBuffer();

    appendAction(sb, READ_FLAG, READ);
    appendAction(sb, RESET_FLAG, RESET);
    appendAction(sb, PUBLISH_FLAG, PUBLISH);
    appendAction(sb, STARTJOB_FLAG, STARTJOB);
    appendAction(sb, SWITCHEVENTS_FLAG, SWITCHEVENTS);

    return sb.toString();
}

private void appendAction(StringBuffer sb, int flag, String actionName) {
    if ((mask & flag) != 0) {
        if (sb.length() != 0)
            sb.append(',');
        sb.append(actionName);

        if (flag == STARTJOB_FLAG && minJobInterval != 0)
            sb.append(':').append(minJobInterval);
    }
}

/**
 * Determines if the specified permission is implied by this permission.

```

```

* <p>
* This method returns { @code false } if and only if at least one of the
* following conditions are fulfilled for the specified permission:
* <ul>
* <li>it is not a { @code MonitorPermission }</li>
* <li>it has a broader set of actions allowed than this one</li>
* <li>it allows initiating time based monitoring jobs with a lower minimal
* sampling interval</li>
* <li>the target set of { @code Monitorable }s is not the same nor a subset
* of the target set of { @code Monitorable }s of this permission</li>
* <li>the target set of { @code StatusVariable }s is not the same nor a
* subset of the target set of { @code StatusVariable }s of this permission</li>
* </ul>
*
* @param p the permission to be checked
* @return { @code true } if the given permission is implied by this
*     permission
*/
public boolean implies(Permission p) {
    if (!(p instanceof MonitorPermission))
        return false;

    MonitorPermission other = (MonitorPermission) p;

    if ((mask & other.mask) != other.mask)
        return false;

    if ((other.mask & STARTJOB_FLAG) != 0 && minJobInterval > other.minJobInterval)
        return false;

    return implies(monId, prefixMonId, other.monId, other.prefixMonId) && implies(varId, prefixVarId, other.varId,
other.prefixVarId);
}

private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {

    return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}
}

```

## 8.211 osgi.cmpn 4.3.0

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## 8.212 osgi.core 5.0.0

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Viewport size: x

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# 8.219 pcep-ietf-stateful07 0.3.2-Helium-SR1

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- ii) additions to the Program;

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## 8.220 pcep-impl 0.3.2-Helium-SR1

### 8.220.1 Available under license :

```
// vi: set smarttab et sw=4 tabstop=4:
module odl-pcep-impl-cfg {
    yang-version 1;
    namespace "urn:opendaylight:params:xml:ns:yang:controller:pcep:impl";
    prefix "pcep-impl";

    import config { prefix config; revision-date 2013-04-05; }
    import odl-pcep-api-cfg { prefix pcep; revision-date 2013-04-09; }
    import odl-pcep-spi-cfg { prefix spi; revision-date 2013-11-15; }
    import netty { prefix netty; revision-date 2013-11-19; }
    import odl-tcpmd5-netty-cfg { prefix tcpmd5; revision-date 2014-04-27; }

    organization "Cisco Systems, Inc.";
}
```

```
contact "Robert Varga <rovarga@cisco.com>;
```

```
description
```

```
"This module contains the base YANG definitions for  
PCEP implementation.
```

```
Copyright (c)2013 Cisco Systems, Inc. All rights reserved.;
```

```
This program and the accompanying materials are made available  
under the terms of the Eclipse Public License v1.0 which  
accompanies this distribution, and is available at  
http://www.eclipse.org/legal/epl-v10.html";
```

```
revision "2013-06-27" {
```

```
  description
```

```
    "Updated revision dates for imports.";
```

```
}
```

```
revision "2013-04-09" {
```

```
  description
```

```
    "Initial revision";
```

```
}
```

```
identity pcep-parser-base {
```

```
  base config:module-type;
```

```
  config:provided-service spi:extension;
```

```
  config:java-name-prefix BasePCEPParser;
```

```
}
```

```
augment "/config:modules/config:module/config:configuration" {
```

```
  case pcep-parser-base {
```

```
    when "/config:modules/config:module/config:type = 'pcep-parser-base'";
```

```
  }
```

```
}
```

```
identity pcep-dispatcher-impl {
```

```
  base config:module-type;
```

```
  config:provided-service pcep:pcep-dispatcher;
```

```
  config:java-name-prefix PCEPDispatcherImpl;
```

```
}
```

```
augment "/config:modules/config:module/config:configuration" {
```

```
  case pcep-dispatcher-impl {
```

```
    when "/config:modules/config:module/config:type = 'pcep-dispatcher-impl'";
```

```
    leaf max-unknown-messages {
```

```
      type uint16;
```

```
      default 5;
```

```

}

container pcep-extensions {
  uses config:service-ref {
    refine type {
      mandatory true;
      config:required-identity spi:consumer-extensions;
    }
  }
}

container pcep-session-proposal-factory {
  uses config:service-ref {
    refine type {
      mandatory true;
      config:required-identity pcep:pcep-session-proposal-factory;
    }
  }
}

container boss-group {
  uses config:service-ref {
    refine type {
      mandatory true;
      config:required-identity netty:netty-threadgroup;
    }
  }
}

container worker-group {
  uses config:service-ref {
    refine type {
      mandatory true;
      config:required-identity netty:netty-threadgroup;
    }
  }
}

container md5-channel-factory {
  uses config:service-ref {
    refine type {
      mandatory false;
      config:required-identity tcpmd5:md5-channel-factory;
    }
  }
}

container md5-server-channel-factory {

```

```

    uses config:service-ref {
      refine type {
        mandatory false;
        config:required-identity tcpmd5:md5-server-channel-factory;
      }
    }
  }
}
}

identity pcep-session-proposal-factory-impl {
  base config:module-type;
  config:java-name-prefix "PCEPSessionProposalFactoryImpl";
  config:provided-service pcep:pcep-session-proposal-factory;
}

augment "/config:modules/config:module/config:configuration" {
  case pcep-session-proposal-factory-impl {
    when "/config:modules/config:module/config:type = 'pcep-session-proposal-factory-impl'" {

      leaf dead-timer-value {
        type uint8;
        default 120;
      }

      leaf keep-alive-timer-value {
        type uint8;
        default 30;
      }
    }
  }
}
/*
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*
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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
/**
* Generated file

* Generated from: yang module name: pcep-impl yang module local name: pcep-session-proposal-factory-impl
* Generated by: org.opendaylight.controller.config.yangjmxgenerator.plugin.JMXGenerator
* Generated at: Wed Nov 06 13:16:39 CET 2013
*
* Do not modify this file unless it is present under src/main directory
*/

```

```

package org.opendaylight.controller.config.yang.pcep.impl;

/**
 *
 */
public class PCEPSessionProposalFactoryImplModuleFactory extends
    org.opendaylight.controller.config.yang.pcep.impl.AbstractPCEPSessionProposalFactoryImplModuleFactory {

}
/*
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
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 */
/**
 * Generated file
 *
 * Generated from: yang module name: pcep-impl yang module local name: pcep-dispatcher-impl
 * Generated by: org.opendaylight.controller.config.yangjmxgenerator.plugin.JMXGenerator
 * Generated at: Wed Nov 06 13:16:39 CET 2013
 *
 * Do not modify this file unless it is present under src/main directory
 */
package org.opendaylight.controller.config.yang.pcep.impl;

import org.opendaylight.controller.config.api.JmxAttributeValidationException;
import org.opendaylight.protocol.pcep.impl.DefaultPCEPSessionNegotiatorFactory;
import org.opendaylight.protocol.pcep.impl.PCEPDispatcherImpl;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.open.object.Open;

/**
 *
 */
public final class PCEPDispatcherImplModule extends
org.opendaylight.controller.config.yang.pcep.impl.AbstractPCEPDispatcherImplModule {

    public PCEPDispatcherImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier name,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(name, dependencyResolver);
    }

    public PCEPDispatcherImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier name,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver, final
PCEPDispatcherImplModule oldModule,
        final java.lang.AutoCloseable oldInstance) {

```

```

    super(name, dependencyResolver, oldModule, oldInstance);
}

@Override
public void validate() {
    super.validate();
    JmxAttributeValidationException.checkNotNull(getMaxUnknownMessages(), "value is not set.",
maxUnknownMessagesJmxAttribute);
    JmxAttributeValidationException.checkCondition(getMaxUnknownMessages() > 0, "Parameter
'maxUnknownMessages' "
        + "must be greater than 0", maxUnknownMessagesJmxAttribute);
}

@Override
public java.lang.AutoCloseable createInstance() {
    Open localPrefs = getPcepSessionProposalFactoryDependency().getSessionProposal(null, 0);
    DefaultPCEPSessionNegotiatorFactory negFactory = new DefaultPCEPSessionNegotiatorFactory(localPrefs,
getMaxUnknownMessages());

    return new PCEPDispatcherImpl(getPcepExtensionsDependency().getMessageHandlerRegistry(), negFactory,
getBossGroupDependency(), getWorkerGroupDependency(), getMd5ChannelFactoryDependency(),
getMd5ServerChannelFactoryDependency());
}
}
/*
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 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
/**
 * Generated file

 * Generated from: yang module name: pcep-impl yang module local name: pcep-dispatcher-impl
 * Generated by: org.opendaylight.controller.config.yangjmxgenerator.plugin.JMXGenerator
 * Generated at: Wed Nov 06 13:16:39 CET 2013
 *
 * Do not modify this file unless it is present under src/main directory
 */
package org.opendaylight.controller.config.yang.pcep.impl;

/**
 *
 */
public class PCEPDispatcherImplModuleFactory extends
    org.opendaylight.controller.config.yang.pcep.impl.AbstractPCEPDispatcherImplModuleFactory {

```



```

}
/*
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
/**
 * Generated file

 * Generated from: yang module name: pcep-impl yang module local name: pcep-session-proposal-factory-impl
 * Generated by: org.opendaylight.controller.config.yangjmxgenerator.plugin.JMXGenerator
 * Generated at: Wed Nov 06 13:16:39 CET 2013
 *
 * Do not modify this file unless it is present under src/main directory
 */
package org.opendaylight.controller.config.yang.pcep.impl;

import java.net.InetSocketAddress;

import org.opendaylight.controller.config.api.JmxAttributeValidationException;
import org.opendaylight.protocol.pcep.PCEPSessionProposalFactory;
import org.opendaylight.protocol.pcep.impl.BasePCEPSessionProposalFactory;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.open.object.Open;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 *
 */
public final class PCEPSessionProposalFactoryImplModule extends
    org.opendaylight.controller.config.yang.pcep.impl.AbstractPCEPSessionProposalFactoryImplModule {

    private static final Logger LOG = LoggerFactory.getLogger(PCEPSessionProposalFactoryImplModule.class);

    public PCEPSessionProposalFactoryImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier
name,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(name, dependencyResolver);
    }

    public PCEPSessionProposalFactoryImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier
name,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
        final PCEPSessionProposalFactoryImplModule oldModule, final java.lang.AutoCloseable oldInstance) {
        super(name, dependencyResolver, oldModule, oldInstance);
    }

```

```

}

@Override
public void customValidation() {
    JmxAttributeValidationException.checkNotNull(getDeadTimerValue(), "value is not set.",
deadTimerValueJmxAttribute);
    JmxAttributeValidationException.checkNotNull(getKeepAliveTimerValue(), "value is not set.",
keepAliveTimerValueJmxAttribute);
    if (getKeepAliveTimerValue() != 0) {
        JmxAttributeValidationException.checkCondition(getKeepAliveTimerValue() >= 1, "minimum value is 1.",
keepAliveTimerValueJmxAttribute);
        if (getDeadTimerValue() != 0 && (getDeadTimerValue() / getKeepAliveTimerValue() != 4)) {
            LOG.warn("DeadTimerValue should be 4 times greater than KeepAliveTimerValue");
        }
    }
}

@Override
public java.lang.AutoCloseable createInstance() {
    final BasePCEPSessionProposalFactory inner = new BasePCEPSessionProposalFactory(getDeadTimerValue(),
getKeepAliveTimerValue());
    return new PCEPSessionProposalFactoryCloseable(inner);
}

private static final class PCEPSessionProposalFactoryCloseable implements PCEPSessionProposalFactory,
AutoCloseable {

    private final BasePCEPSessionProposalFactory inner;

    public PCEPSessionProposalFactoryCloseable(final BasePCEPSessionProposalFactory inner) {
        this.inner = inner;
    }

    @Override
    public void close() {
        // Nothing to do
    }

    @Override
    public Open getSessionProposal(final InetSocketAddress inetSocketAddress, final int i) {
        return this.inner.getSessionProposal(inetSocketAddress, i);
    }
}
}
/*
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```

```

* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.protocol.pcep.impl.subobject;

import com.google.common.base.Preconditions;
import com.google.common.collect.Lists;
import com.google.common.primitives.UnsignedBytes;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;

import java.util.ArrayList;
import java.util.List;

import org.opendaylight.protocol.pcep.spi.EROSubjectParser;
import org.opendaylight.protocol.pcep.spi.EROSubjectSerializer;
import org.opendaylight.protocol.pcep.spi.EROSubjectUtil;
import org.opendaylight.protocol.pcep.spi.PCEPDeserializerException;
import org.opendaylight.protocol.pcep.spi.XROSubobjectRegistry;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.explicit.route.object.ero.
Subobject;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.explicit.route.object.ero.
SubobjectBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.ExrsCase;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.ExrsCaseBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.exrs._case.Exrs;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.exrs._case.ExrsBuilder;

public class EROExplicitExclusionRouteSubobjectParser implements EROSubobjectParser,
EROSubobjectSerializer {

    public static final int TYPE = 33;

    private static final int HEADER_LENGTH = 2;

    private final XROSubobjectRegistry registry;

```

```

public EROExplicitExclusionRouteSubobjectParser(final XROSubobjectRegistry registry) {
    this.registry = registry;
}

@Override
public Subobject parseSubobject(final ByteBuf buffer, final boolean loose) throws PCEPDeserializerException {
    Preconditions.checkArgument(buffer != null && buffer.isReadable(), "Array of bytes is mandatory. Can't be
null or empty.");
    final SubobjectBuilder builder = new SubobjectBuilder();
    builder.setLoose(loose);
    final
List<org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object
.xro.Subobject> list = parseSubobject(buffer);
    final
List<org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.s
ubobject.type.exrs._case.exrs.Exrs> exrss = Lists.newArrayList();
    for (final
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object.xro.
Subobject s : list) {
        final
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.exrs._case.exrs.ExrsBuilder b = new
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.exrs._case.exrs.ExrsBuilder();
        b.setAttribute(s.getAttribute());
        b.setMandatory(s.isMandatory());
        b.setSubobjectType(s.getSubobjectType());
        exrss.add(b.build());
    }
    builder.setSubobjectType(new ExrsCaseBuilder().setExrs(new ExrsBuilder().setExrs(exrss).build()).build());
    return builder.build();
}

@Override
public void serializeSubobject(final Subobject subobject, final ByteBuf buffer) {
    Preconditions.checkArgument(subobject.getSubobjectType() instanceof ExrsCase, "Unknown subobject
instance. Passed %s. Needed Exrs.", subobject.getSubobjectType().getClass());
    final Exrs e = ((ExrsCase) subobject.getSubobjectType()).getExrs();
    final
List<org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object
.xro.Subobject> list = new ArrayList<>();
    for (final
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.rsvp.rev130820.explicit.route.subobjects.subobj
ect.type.exrs._case.exrs.Exrs ex : e.getExrs()) {
        final
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object.xro.
SubobjectBuilder b = new
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object.xro.

```

```

SubobjectBuilder();
    b.setAttribute(ex.getAttribute());
    b.setMandatory(ex.isMandatory());
    b.setSubobjectType(ex.getSubobjectType());
    list.add(b.build());
}
final ByteBuf body = Unpooled.buffer();
serializeSubobject(list, body);
EROSubobjectUtil.formatSubobject(TYPE, subobject.isLoose(), body, buffer);
}

private
List<org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object
.xro.Subobject> parseSubobject(
    final ByteBuf buffer) throws PCEPDeserializerException {
    Preconditions.checkArgument(buffer != null && buffer.isReadable(), "Array of bytes is mandatory. Can't be
null or empty.");
    final
List<org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object
.xro.Subobject> subs = new ArrayList<>();
    while (buffer.isReadable()) {
        final boolean mandatory = ((buffer.getByte(buffer.readerIndex()) & (1 << 7)) != 0) ? true : false;
        int type = (buffer.readByte() & 0xff) & ~(1 << 7);
        int length = UnsignedBytes.toInt(buffer.readByte()) - HEADER_LENGTH;
        if (length > buffer.readableBytes()) {
            throw new PCEPDeserializerException("Wrong length specified. Passed: " + length + "; Expected: <= "
                + buffer.readableBytes());
        }
        subs.add(this.registry.parseSubobject(type, buffer.slice(buffer.readerIndex(), length), mandatory));
        buffer.readerIndex(buffer.readerIndex() + length);
    }
    return subs;
}

private void serializeSubobject(
    final
List<org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object
.xro.Subobject> subobjects, final ByteBuf body) {
    for (final
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.exclude.route.object.xro.
Subobject subobject : subobjects) {
        this.registry.serializeSubobject(subobject, body);
    }
}
}
}
/*
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*

```

```

* This program and the accompanying materials are made available under the
* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.protocol.pcep.impl.object;

import com.google.common.base.Preconditions;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;

import org.opendaylight.protocol.pcep.spi.EROSubobjectRegistry;
import org.opendaylight.protocol.pcep.spi.ObjectUtil;
import org.opendaylight.protocol.pcep.spi.PCEPDeserializerException;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.Object;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.ObjectHeader;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.explicit.route.object.Ero;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.explicit.route.object.Ero
Builder;

/**
 * Parser for { @link Ero }
 */
public class PCEPExplicitRouteObjectParser extends AbstractEROWithSubobjectsParser {

    public static final int CLASS = 7;

    public static final int TYPE = 1;

    public PCEPExplicitRouteObjectParser(final EROSubobjectRegistry subobjReg) {
        super(subobjReg);
    }

    @Override
    public Ero parseObject(final ObjectHeader header, final ByteBuf buffer) throws PCEPDeserializerException {
        // Explicit approval of empty ERO
        Preconditions.checkArgument(buffer != null, "Array of bytes is mandatory. Can't be null.");
        final EroBuilder builder = new EroBuilder();
        builder.setIgnore(header.isIgnore());
        builder.setProcessingRule(header.isProcessingRule());
        builder.setSubobject(parseSubobjects(buffer));
        return builder.build();
    }

    @Override
    public void serializeObject(final Object object, final ByteBuf buffer) {

```

```

        Preconditions.checkNotNull(object instanceof Ero, "Wrong instance of PCEPObject. Passed %s. Needed
EroObject.", object.getClass());
        final Ero ero = ((Ero) object);
        final ByteBuf body = Unpooled.buffer();
        serializeSubobject(ero.getSubobject(), body);
        ObjectUtil.formatSubobject(TYPE, CLASS, object.isProcessingRule(), object.isIgnore(), body, buffer);
    }
}
/*
 * Copyright (c) 2013 Cisco Systems, Inc. and others. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.protocol.pcep.impl;

import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Objects;
import com.google.common.base.Objects.ToStringHelper;
import com.google.common.base.Preconditions;
import io.netty.channel.Channel;
import io.netty.channel.ChannelFuture;
import io.netty.channel.ChannelFutureListener;
import io.netty.util.concurrent.Future;
import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.util.Date;
import java.util.LinkedList;
import java.util.Queue;
import java.util.concurrent.TimeUnit;
import org.opendaylight.protocol.framework.AbstractProtocolSession;
import org.opendaylight.protocol.pcep.PCEPCLoseTermination;
import org.opendaylight.protocol.pcep.PCEPSession;
import org.opendaylight.protocol.pcep.PCEPSessionListener;
import org.opendaylight.protocol.pcep.TerminationReason;
import org.opendaylight.protocol.pcep.spi.PCEPErrors;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.message.rev131007.CloseBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.message.rev131007.Keepalive;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.message.rev131007.KeepaliveBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.CloseMessage;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.KeepaliveMessage;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.Message;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.OpenMessage;
import

```

```

org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.close.message.CCloseMe
ssageBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.close.object.CCloseBuild
er;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.keepalive.message.Keep
aliveMessageBuilder;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.open.object.Open;
import
org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.open.object.open.Tlvs;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Implementation of PCEPSession. (Not final for testing.)
 */
@VisibleForTesting
public class PCEPSessionImpl extends AbstractProtocolSession<Message> implements PCEPSession,
PCEPSessionRuntimeMXBean {
    /**
     * System.nanoTime value about when was sent the last message Protected to be updated also in tests.
     */
    @VisibleForTesting
    protected volatile long lastMessageSentAt;

    /**
     * System.nanoTime value about when was received the last message
     */
    private long lastMessageReceivedAt;

    private final Queue<Long> unknownMessagesTimes = new LinkedList<Long>();

    private final PCEPSessionListener listener;

    /**
     * Open Object with session characteristics that were accepted by another PCE (sent from this session).
     */
    private final Open localOpen;

    /**
     * Open Object with session characteristics for this session (sent from another PCE).
     */
    private final Open remoteOpen;

    private static final Logger LOG = LoggerFactory.getLogger(PCEPSessionImpl.class);

```



```

private int sentMsgCount = 0;

private int receivedMsgCount = 0;

private int maxUnknownMessages;

// True if the listener should not be notified about events
private boolean closed = false;

private final Channel channel;

private final Keepalive kaMessage = new KeepaliveBuilder().setKeepaliveMessage(new
KeepaliveMessageBuilder().build()).build();

PCEPSessionImpl(final PCEPSessionListener listener, final int maxUnknownMessages, final Channel channel,
final Open localOpen, final Open remoteOpen) {
this.listener = Preconditions.checkNotNull(listener);
this.channel = Preconditions.checkNotNull(channel);
this.localOpen = Preconditions.checkNotNull(localOpen);
this.remoteOpen = Preconditions.checkNotNull(remoteOpen);
this.lastMessageReceivedAt = System.nanoTime();

if (maxUnknownMessages != 0) {
this.maxUnknownMessages = maxUnknownMessages;
}

if (getDeadTimerValue() != 0) {
channel.eventLoop().schedule(new Runnable() {
@Override
public void run() {
handleDeadTimer();
}
}, getDeadTimerValue(), TimeUnit.SECONDS);
}

if (getKeepAliveTimerValue() != 0) {
channel.eventLoop().schedule(new Runnable() {
@Override
public void run() {
handleKeepaliveTimer();
}
}, getKeepAliveTimerValue(), TimeUnit.SECONDS);
}

LOG.info("Session {}[{}] <-> {}[{}] started", channel.localAddress(), localOpen.getSessionId(),
channel.remoteAddress(),
remoteOpen.getSessionId());

```

```

}

/**
 * If DeadTimer expires, the session ends. If a message (whichever) was received during this period, the
DeadTimer
 * will be rescheduled by DEAD_TIMER_VALUE + the time that has passed from the start of the DeadTimer to
the time at
 * which the message was received. If the session was closed by the time this method starts to execute (the session
 * state will become IDLE), that rescheduling won't occur.
 */
private synchronized void handleDeadTimer() {
    final long ct = System.nanoTime();

    final long nextDead = this.lastMessageReceivedAt + TimeUnit.SECONDS.toNanos(getDeadTimerValue());

    if (this.channel.isActive()) {
        if (ct >= nextDead) {
            LOG.debug("DeadTimer expired. {}", new Date());
            this.terminate(TerminationReason.ExpDeadtimer);
        } else {
            this.channel.eventLoop().schedule(new Runnable() {
                @Override
                public void run() {
                    handleDeadTimer();
                }
            }, nextDead - ct, TimeUnit.NANOSECONDS);
        }
    }
}

/**
 * If KeepAlive Timer expires, sends KeepAlive message. If a message (whichever) was send during this period,
the
 * KeepAlive Timer will be rescheduled by KEEP_ALIVE_TIMER_VALUE + the time that has passed from the
start of the
 * KeepAlive timer to the time at which the message was sent. If the session was closed by the time this method
 * starts to execute (the session state will become IDLE), that rescheduling won't occur.
 */
private void handleKeepaliveTimer() {
    final long ct = System.nanoTime();

    long nextKeepalive = this.lastMessageSentAt + TimeUnit.SECONDS.toNanos(getKeepAliveTimerValue());

    if (this.channel.isActive()) {
        if (ct >= nextKeepalive) {
            this.sendMessage(this.kaMessage);
            nextKeepalive = this.lastMessageSentAt + TimeUnit.SECONDS.toNanos(getKeepAliveTimerValue());
        }
    }
}

```

```

        this.channel.eventLoop().schedule(new Runnable() {
            @Override
            public void run() {
                handleKeepaliveTimer();
            }
        }, nextKeepalive - ct, TimeUnit.NANOSECONDS);
    }
}

/**
 * Sends message to serialization.
 *
 * @param msg to be sent
 */
@Override
public Future<Void> sendMessage(final Message msg) {
    final ChannelFuture f = this.channel.writeAndFlush(msg);
    this.lastMessageSentAt = System.nanoTime();
    if (!(msg instanceof KeepaliveMessage)) {
        LOG.debug("PCEP Message enqueued: {}", msg);
    }
    this.sentMsgCount++;

    f.addListener(new ChannelFutureListener() {
        @Override
        public void operationComplete(final ChannelFuture arg) {
            if (arg.isSuccess()) {
                LOG.trace("Message sent to socket: {}", msg);
            } else {
                LOG.debug("Message not sent: {}", msg, arg.cause());
            }
        }
    });

    return f;
}

/**
 * Closes PCEP session without sending a Close message, as the channel is no longer active.
 */
@Override
public void close() {
    LOG.info("Closing PCEP session: {}", this);
    this.channel.close();
}

/**

```

```

    * Closes PCEP session, cancels all timers, returns to state Idle, sends the Close Message. KeepAlive and
DeadTimer
    * are cancelled if the state of the session changes to IDLE. This method is used to close the PCEP session from
    * inside the session or from the listener, therefore the parent of this session should be informed.
    */
    @Override
    public synchronized void close(final TerminationReason reason) {
        LOG.info("Closing PCEP session: {}", this);
        this.closed = true;
        this.sendMessage(new CloseBuilder().setCCloseMessage(
            new CCloseMessageBuilder().setCClose(new
CCloseBuilder().setReason(reason.getShortValue()).build()).build()).build());
        this.channel.close();
    }

    @Override
    public Tlvs getRemoteTlvs() {
        return this.remoteOpen.getTlvs();
    }

    @Override
    public InetAddress getRemoteAddress() {
        return ((InetSocketAddress) this.channel.remoteAddress()).getAddress();
    }

    private synchronized void terminate(final TerminationReason reason) {
        LOG.info("Local PCEP session termination : {}", reason);
        this.listener.onSessionTerminated(this, new PCEPCloseTermination(reason));
        this.closed = true;
        this.sendMessage(new CloseBuilder().setCCloseMessage(
            new CCloseMessageBuilder().setCClose(new
CCloseBuilder().setReason(reason.getShortValue()).build()).build()).build());
        this.close();
    }

    @Override
    public synchronized void endOfInput() {
        if (!this.closed) {
            this.listener.onSessionDown(this, new IOException("End of input detected. Close the session."));
            this.closed = true;
        }
    }

    private void sendErrorMessage(final PCEPErrors value) {
        this.sendMessage(value, null);
    }

    /**

```

```

* Sends PCEP Error Message with one PCEPError and Open Object.
*
* @param value
* @param open
*/
private void sendErrorMessage(final PCEPErrors value, final Open open) {
    this.sendMessage(Util.createErrorMessage(value, open));
}

/**
* The fact, that a message is malformed, comes from parser. In case of unrecognized message a particular error is
* sent (CAPABILITY_NOT_SUPPORTED) and the method checks if the MAX_UNKNOWN_MSG per minute
wasn't overstepped.
* Second, any other error occurred that is specified by rfc. In this case, the an error message is generated and
* sent.
*
* @param error documented error in RFC5440 or draft
*/
@VisibleForTesting
public void handleMalformedMessage(final PCEPErrors error) {
    final long ct = System.nanoTime();
    this.sendErrorMessage(error);
    if (error == PCEPErrors.CAPABILITY_NOT_SUPPORTED) {
        this.unknownMessagesTimes.add(ct);
        while (ct - this.unknownMessagesTimes.peek() > 60 * 1E9) {
            this.unknownMessagesTimes.poll();
        }
        if (this.unknownMessagesTimes.size() > this.maxUnknownMessages) {
            this.terminate(TerminationReason.TooManyUnknownMsg);
        }
    }
}

/**
* Handles incoming message. If the session is up, it notifies the user. The user is notified about every message
* except KeepAlive.
*
* @param msg incoming message
*/
@Override
public synchronized void handleMessage(final Message msg) {
    // Update last reception time
    this.lastMessageReceivedAt = System.nanoTime();
    this.receivedMsgCount++;
    if (!(msg instanceof KeepaliveMessage)) {
        LOG.debug("PCEP message {} received.", msg);
    }
    // Internal message handling. The user does not see these messages

```

```

if (msg instanceof KeepaliveMessage) {
    // Do nothing, the timer has been already reset
} else if (msg instanceof OpenMessage) {
    this.sendMessage(PCEPErrors.ATTEMPT_2ND_SESSION);
} else if (msg instanceof CloseMessage) {
    /*
     * Session is up, we are reporting all messages to user. One notable
     * exception is CLOSE message, which needs to be converted into a
     * session DOWN event.
     */
    this.close();
} else {
    // This message needs to be handled by the user
    this.listener.onMessage(this, msg);
}
}

/**
 * @return the sentMsgCount
 */

@Override
public final Integer getSentMsgCount() {
    return this.sentMsgCount;
}

/**
 * @return the receivedMsgCount
 */

@Override
public final Integer getReceivedMsgCount() {
    return this.receivedMsgCount;
}

@Override
public final Integer getDeadTimerValue() {
    return Integer.valueOf(this.remoteOpen.getDeadTimer());
}

@Override
public final Integer getKeepAliveTimerValue() {
    return Integer.valueOf(this.localOpen.getKeepalive());
}

@Override
public final String getPeerAddress() {
    final InetSocketAddress a = (InetSocketAddress) this.channel.remoteAddress();

```

```

    return a.getHostName();
}

@Override
public void tearDown() {
    this.close();
}

@Override
public final String toString() {
    return addToStringAttributes(Objects.toStringHelper(this)).toString();
}

protected ToStringHelper addToStringAttributes(final ToStringHelper toStringHelper) {
    toStringHelper.add("channel", this.channel);
    toStringHelper.add("localOpen", this.localOpen);
    toStringHelper.add("remoteOpen", this.remoteOpen);
    return toStringHelper;
}

@Override
@VisibleForTesting
public void sessionUp() {
    this.listener.onSessionUp(this);
}

@Override
public String getNodeIdentifier() {
    return "";
}

@Override
@VisibleForTesting
protected final Queue<Long> getUnknownMessagesTimes() {
    return this.unknownMessagesTimes;
}
}
/*
 * Copyright (c) 2013 Cisco Systems, Inc. and others. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.protocol.pcep.impl;

import com.google.common.base.Preconditions;
import io.netty.bootstrap.Bootstrap;
import io.netty.bootstrap.ServerBootstrap;

```

```

import io.netty.channel.ChannelFuture;
import io.netty.channel.ChannelOption;
import io.netty.channel.EventLoopGroup;
import io.netty.channel.socket.SocketChannel;
import io.netty.util.concurrent.Promise;
import java.net.InetSocketAddress;
import org.opendaylight.protocol.framework.AbstractDispatcher;
import org.opendaylight.protocol.framework.SessionListenerFactory;
import org.opendaylight.protocol.framework.SessionNegotiatorFactory;
import org.opendaylight.protocol.pcep.PCEPDispatcher;
import org.opendaylight.protocol.pcep.PCEPSessionListener;
import org.opendaylight.protocol.pcep.spi.MessageRegistry;
import org.opendaylight.tcpmd5.api.KeyMapping;
import org.opendaylight.tcpmd5.netty.MD5ChannelFactory;
import org.opendaylight.tcpmd5.netty.MD5ChannelOption;
import org.opendaylight.tcpmd5.netty.MD5ServerChannelFactory;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.pcep.types.rev131005.Message;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Implementation of PCEPDispatcher.
 */
public class PCEPDispatcherImpl extends AbstractDispatcher<PCEPSessionImpl, PCEPSessionListener>
implements PCEPDispatcher {
    private static final Logger LOG = LoggerFactory.getLogger(PCEPDispatcherImpl.class);
    private final SessionNegotiatorFactory<Message, PCEPSessionImpl, PCEPSessionListener> snf;
    private final MD5ServerChannelFactory<?> scf;
    private final MD5ChannelFactory<?> cf;
    private final PCEPHandlerFactory hf;
    private KeyMapping keys;

    /**
     * Creates an instance of PCEPDispatcherImpl, gets the default selector and opens it.
     */
    public PCEPDispatcherImpl(final MessageRegistry registry,
        final SessionNegotiatorFactory<Message, PCEPSessionImpl, PCEPSessionListener> negotiatorFactory,
        final EventLoopGroup bossGroup, final EventLoopGroup workerGroup) {
        this(registry, negotiatorFactory, bossGroup, workerGroup, null, null);
    }

    /**
     * Creates an instance of PCEPDispatcherImpl, gets the default selector and opens it.
     */
    public PCEPDispatcherImpl(final MessageRegistry registry,
        final SessionNegotiatorFactory<Message, PCEPSessionImpl, PCEPSessionListener> negotiatorFactory,
        final EventLoopGroup bossGroup, final EventLoopGroup workerGroup, final MD5ChannelFactory<?> cf,
        final MD5ServerChannelFactory<?> scf) {

```



```

super(bossGroup, workerGroup);
this.cf = cf;
this.scf = scf;
this.snf = Preconditions.checkNotNull(negotiatorFactory);
this.hf = new PCEPHandlerFactory(registry);
}

@Override
public synchronized ChannelFuture createServer(final InetSocketAddress address,
    final SessionListenerFactory<PCEPSessionListener> listenerFactory) {
    return createServer(address, null, listenerFactory);
}

@Override
public void close() {
}

@Override
protected void customizeBootstrap(final Bootstrap b) {
    if (this.keys != null && !this.keys.isEmpty()) {
        if (this.cf == null) {
            throw new UnsupportedOperationException("No key access instance available, cannot use key mapping");
        }

        LOG.debug("Adding MD5 keys {} to bootstrap {}", this.keys, b);
        b.channelFactory(this.cf);
        b.option(MD5ChannelOption.TCP_MD5SIG, this.keys);
    }
}

@Override
protected void customizeBootstrap(final ServerBootstrap b) {
    if (this.keys != null && !this.keys.isEmpty()) {
        if (this.scf == null) {
            throw new UnsupportedOperationException("No key access instance available, cannot use key mapping");
        }

        LOG.debug("Adding MD5 keys {} to bootstrap {}", this.keys, b);
        b.channelFactory(this.scf);
        b.option(MD5ChannelOption.TCP_MD5SIG, this.keys);
    }

    // Make sure we are doing round-robin processing
    b.childOption(ChannelOption.MAX_MESSAGES_PER_READ, 1);
}

@Override
public synchronized ChannelFuture createServer(final InetSocketAddress address, final KeyMapping keys,

```

```

final SessionListenerFactory<PCEPSessionListener> listenerFactory) {
this.keys = keys;
final ChannelFuture ret = super.createServer(address, new PipelineInitializer<PCEPSessionImpl>() {
@Override
public void initializeChannel(final SocketChannel ch, final Promise<PCEPSessionImpl> promise) {
ch.pipeline().addLast(PCEPDispatcherImpl.this.hf.getDecoders());
ch.pipeline().addLast("negotiator", PCEPDispatcherImpl.this.snf.getSessionNegotiator(listenerFactory, ch,
promise));
ch.pipeline().addLast(PCEPDispatcherImpl.this.hf.getEncoders());
}
});

this.keys = null;
return ret;
}
}

```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>odl-pcep-impl-cfg</title>
```

```
</head>
```

```
<body>
```

```
<h1>odl-pcep-impl-cfg</h1>
```

```
<h2>Base Information</h2>
```

```
<table>
```

```
<tr>
```

```
<td><strong>prefix</strong></td>
```

```
<td>pcep-impl</td>
```

```
</tr>
```

```
<tr>
```

```
<td><strong>namespace</strong></td>
```

```
<td>urn:opendaylight:params:xml:ns:yang:controller:pcep:impl</td>
```

```
</tr>
```

```
<tr>
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```
<td><strong>revision</strong></td>
```

```
<td>2013-06-27</td>
```

```
</tr>
```

```
<tr>
```

```
<td><strong>description</strong></td>
```

```
<td>This module contains the base YANG definitions for
PCEP implementation.
```

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```

        http://www.eclipse.org/legal/epl-v10.html</td>
</tr>
<tr>
    <td><strong>yang-version</strong></td>
    <td>1</td>
</tr>
<tr>
    <td><strong>imports</strong></td><td>    tcpmd5:odl-tcpmd5-netty-cfg 2014-04-27;
        netty:netty 2013-11-19;
        spi:odl-pcep-spi-cfg 2013-11-15;
        pcep:odl-pcep-api-cfg 2013-04-09;
        config:config 2013-04-05;
</td> </tr>
</table>

```

### Identities Summary

```

<table>
<tr>
    <th>Name</th>
    <th>Description</th>
</tr>
<tr>
    <td>
        <a href="#pcep-dispatcher-impl"><strong>pcep-dispatcher-impl</strong></a>
    </td>
    <td>
    </td>
</tr>
<tr>
    <td>
        <a href="#pcep-parser-base"><strong>pcep-parser-base</strong></a>
    </td>
    <td>
    </td>
</tr>
<tr>
    <td>
        <a href="#pcep-session-proposal-factory-impl"><strong>pcep-session-proposal-factory-impl</strong></a>
    </td>
    <td>
    </td>
</tr>
</table>

```

### Augmentations Summary

```

<table>
<tr>
    <th>Target</th>
    <th>Description</th>

```

```

</tr>
<tr>
  <td>
    <a href="#/config:modules/config:module/config:configuration/(case)pcep-parser-
base"><strong>/config:modules/config:module/config:configuration/(case)pcep-parser-base</strong></a>
  </td>
  <td>
  </td>
</tr>
<tr>
  <td>
    <a href="#/config:modules/config:module/config:configuration/(case)pcep-dispatcher-
impl"><strong>/config:modules/config:module/config:configuration/(case)pcep-dispatcher-impl</strong></a>
  </td>
  <td>
  </td>
</tr>
<tr>
  <td>
    <a href="#/config:modules/config:module/config:configuration/(case)pcep-session-proposal-factory-
impl"><strong>/config:modules/config:module/config:configuration/(case)pcep-session-proposal-factory-
impl</strong></a>
  </td>
  <td>
  </td>
</tr>
</table>

```

## <h2>Identities</h2>

```

<ul>
<li>
  <h3 id="pcep-dispatcher-impl">pcep-dispatcher-impl</h3>
  <ul>
<li>
    base: module-type
  </li>
</ul>
</li>
<li>
  <h3 id="pcep-parser-base">pcep-parser-base</h3>
  <ul>
<li>
    base: module-type
  </li>
</ul>
</li>
<li>

```

```

<h3 id="pcep-session-proposal-factory-impl">pcep-session-proposal-factory-impl</h3>
<ul>
<li>
  base: module-type
</li>
</ul>
</li>
</ul>

```

## Augmentations

```

<ul>
<li>
  <h3 id="/config:modules/config:module/config:configuration/(case)pcep-parser-base">
    Target
    [(urn:opendaylight:params:xml:ns:yang:controller:config)/config:modules/config:module/config:configuration/(case
    )pcep-parser-base]</h3>
    Status: <strong>CURRENT</strong>
    <ul>
<strong>
<li id="modules/module/configuration/pcep-parser-base">
  case: pcep-parser-base
</li>
</strong>
<ul>
<li>
  when condition: /config:modules/config:module/config:type = 'pcep-parser-base'
</li>
</ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<ul>
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<ul>
</ul>
<ul>
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<ul>
</ul>
<ul>
</ul>
</li>
</ul>
<h3>Example</h3>
<pre>
</pre>
</li>
</ul>

```

<h3 id="/config:modules/config:module/config:configuration/(case)pcep-dispatcher-impl">

Target

[(urn:opendaylight:params:xml:ns:yang:controller:config)/config:modules/config:module/config:configuration/(case)pcep-dispatcher-impl]</h3>

Status: <strong>CURRENT</strong>

<ul>

<strong>

<li id="modules/module/configuration/pcep-dispatcher-impl">

case: pcep-dispatcher-impl

</li>

</strong>

<ul>

<li>

when condition: /config:modules/config:module/config:type = 'pcep-dispatcher-impl'

</li>

</ul>

<ul>

</ul>

<ul>

</ul>

<ul>

</ul>

<ul>

</ul>

<strong><li>

leaf: max-unknown-messages

</li>

</strong>

<ul>

<li>

type: (urn:ietf:params:xml:ns:yang:1)uint16

</li>

<li>

default: 5

</li>

</ul>

</ul>

<ul>

<strong>

<li id="modules/module/configuration/pcep-dispatcher-impl/pcep-extensions">

container: pcep-extensions

</li>

</strong>

<ul>

</ul>

<ul>

<strong><li>

uses: (urn:opendaylight:params:xml:ns:yang:controller:config)service-ref

</li>  
</strong>  
<ul>  
<li>refines:  
  <ul>  
    <li>  
      node name: type  
    </li>  
  </ul>  
</li>  
</ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<ul>  
<strong><li>  
  leaf: type  
</li>  
</strong>  
<ul>  
<li>  
  description: Type of the service being referenced. Users of this grouping  
    should refine this leaf with required-identity pointing to  
    the actual service-type which is actually required.  
</li>  
<li>  
  type: (urn:opendaylight:params:xml:ns:yang:controller:config)service-type-ref  
</li>  
</ul>  
</ul>  
<ul>  
<ul>  
<strong><li>  
  leaf: name  
</li>  
</strong>  
<ul>  
<li>  
  type: (urn:ietf:params:xml:ns:yang:1)leafref  
</li>  
</ul>  
</ul>  
</ul>  
</ul>  
</ul>  
</ul>  
</ul>  
</ul>  
</ul>  
</strong>

```

<li id="modules/module/configuration/pcep-dispatcher-impl/pcep-session-proposal-factory">
  container: pcep-session-proposal-factory
</li>
</strong>
<ul>
</ul>
<ul>
</ul>
<strong><li>
  uses: (urn:opendaylight:params:xml:ns:yang:controller:config)service-ref
</li>
</strong>
<ul>
<li>refines:
  <ul>
<li>
    node name: type
  </li>
</ul>
</li>
</ul>
<ul>
</ul>
<ul>
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</ul>
<ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<strong><li>
  leaf: type
</li>
</strong>
<ul>
<li>
    description: Type of the service being referenced. Users of this grouping
      should refine this leaf with required-identity pointing to
      the actual service-type which is actually required.
  </li>
</ul>
<ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<strong><li>
  leaf: name
</li>
</strong>
<ul>

```



```
<li>
  type: (urn:ietf:params:xml:ns:yang:1)leafref
</li>
</ul>
</ul>
</ul>
</ul>
<ul>
<strong>
<li id="modules/module/configuration/pcep-dispatcher-impl/boss-group">
  container: boss-group
</li>
</strong>
<ul>
</ul>
<ul>
<strong><li>
  uses: (urn:opendaylight:params:xml:ns:yang:controller:config)service-ref
</li>
</strong>
<ul>
<li>refines:
  <ul>
<li>
  node name: type
  </li>
</ul>
</li>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
<strong><li>
  leaf: type
</li>
</strong>
<ul>
<li>
  description: Type of the service being referenced. Users of this grouping
    should refine this leaf with required-identity pointing to
    the actual service-type which is actually required.
</li>
</ul>
<li>
  type: (urn:opendaylight:params:xml:ns:yang:controller:config)service-type-ref
```

```

</li>
</ul>
</ul>
<ul>
<strong><li>
  leaf: name
</li>
</strong>
<ul>
<li>
  type: (urn:ietf:params:xml:ns:yang:1)leafref
</li>
</ul>
</ul>
</ul>
</ul>
</ul>
<ul>
<strong>
<li id="modules/module/configuration/pcep-dispatcher-impl/worker-group">
  container: worker-group
</li>
</strong>
<ul>
</ul>
<ul>
<strong><li>
  uses: (urn:opendaylight:params:xml:ns:yang:controller:config)service-ref
</li>
</strong>
<ul>
<li>refines:
  <ul>
<li>
  node name: type
</li>
</ul>
</li>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
</ul>
<strong><li>
  leaf: type
</li>

```

```

</strong>
<ul>
<li>
  description: Type of the service being referenced. Users of this grouping
    should refine this leaf with required-identity pointing to
    the actual service-type which is actually required.
</li>
<li>
  type: (urn:opendaylight:params:xml:ns:yang:controller:config)service-type-ref
</li>
</ul>
<ul>
<ul>
<ul>
<strong><li>
  leaf: name
</li>
</strong>
<ul>
<li>
  type: (urn:ietf:params:xml:ns:yang:1)leafref
</li>
</ul>
</ul>
</ul>
</ul>
<ul>
<strong>
<li id="modules/module/configuration/pcep-dispatcher-impl/md5-channel-factory">
  container: md5-channel-factory
</li>
</strong>
<ul>
</ul>
<ul>
<strong><li>
  uses: (urn:opendaylight:params:xml:ns:yang:controller:config)service-ref
</li>
</strong>
<ul>
<li>refines:
  <ul>
<li>
    node name: type
  </li>
</ul>
</li>
</ul>
</ul>
</ul>

```

```

<ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<ul>
</ul>
<strong><li>
  leaf: type
</li>
</strong>
<ul>
<li>
  description: Type of the service being referenced. Users of this grouping
    should refine this leaf with required-identity pointing to
    the actual service-type which is actually required.
</li>
<li>
  type: (urn:opendaylight:params:xml:ns:yang:controller:config)service-type-ref
</li>
</ul>
</ul>
<ul>
<ul>
<strong><li>
  leaf: name
</li>
</strong>
<ul>
<li>
  type: (urn:ietf:params:xml:ns:yang:1)leafref
</li>
</ul>
</ul>
</ul>
<ul>
<strong>
<li id="modules/module/configuration/pcep-dispatcher-impl/md5-server-channel-factory">
  container: md5-server-channel-factory
</li>
</strong>
<ul>
</ul>
<ul>
<strong><li>
  uses: (urn:opendaylight:params:xml:ns:yang:controller:config)service-ref
</li>
</strong>
<ul>

```



```

    </pre>
  </li>
  <li>
    <h3 id="/config:modules/config:module/config:configuration/(case)pcep-session-proposal-factory-impl">
      Target
      [(urn:opendaylight:params:xml:ns:yang:controller:config)/config:modules/config:module/config:configuration/(case)
      )pcep-session-proposal-factory-impl]</h3>
      Status: <strong>CURRENT</strong>
      <ul>
        <strong>
          <li id="modules/module/configuration/pcep-session-proposal-factory-impl">
            case: pcep-session-proposal-factory-impl
          </li>
        </strong>
        <ul>
          <li>
            when condition: /config:modules/config:module/config:type = 'pcep-session-proposal-factory-impl'
          </li>
        </ul>
        <ul>
          <ul>
            <ul>
              <ul>
                <ul>
                </ul>
              </ul>
            </ul>
          </ul>
        </ul>
        <strong><li>
          leaf: dead-timer-value
        </li>
        </strong>
        <ul>
          <li>
            type: (urn:ietf:params:xml:ns:yang:1)uint8
          </li>
          <li>
            default: 120
          </li>
        </ul>
        <ul>
          <strong><li>
            leaf: keep-alive-timer-value
          </li>
          </strong>
        </ul>
        <li>
          type: (urn:ietf:params:xml:ns:yang:1)uint8

```

```
</li>
<li>
  default: 30
</li>
</ul>
</ul>
</ul>
</ul>

<h3>Example</h3>
<pre>
</pre>
</li>
</ul>

</body>
</html>
```

## 8.221 pcep-segment-routing 0.3.2-Helium-SR1

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# 8.222 pcep-spi 0.3.2-Helium-SR1

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# 8.223 pcep-topology-api 0.3.2-Helium-SR1

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## 8.224 pcep-topology-provider 0.3.2-Helium-SR1

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## 8.225 pcep-topology-spi 0.3.2-Helium-SR1

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# 8.227 pcep-tunnel-provider 0.3.2-Helium-SR1

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## 8.228 Plexus :: Default Container 1.5.5

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```
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```

```
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```

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*/

/**
 * Exception that is thrown when the class(es) required for a component
 * implementation are not available.
 *
 * @author Jason van Zyl
 *
 * @version $Id: ComponentImplementationNotFoundException.java 7089 2007-11-25 15:19:06Z jvanzyl $
 */
public class ComponentImplementationNotFoundException
    extends Exception
{
    private static final long serialVersionUID = -9171668987729438489L;

    /**
     * Construct a new ComponentImplementationNotFoundException instance.
     * @param message exception message
     */
    public ComponentImplementationNotFoundException( String message )
    {
        super( message );
    }

    /**
     * Construct a new ComponentImplementationNotFoundException instance.
     * @param message exception message
     * @param cause causing exception to chain
     */
    public ComponentImplementationNotFoundException( String message, Throwable cause )
    {
        super( message, cause );
    }
}
package org.codehaus.plexus.component.repository.exception;

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```

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*/

/**
 * Exception that is thrown when the class(es) required for a component
 * implementation are not available.
 *
 * @author Jason van Zyl
 * @version $Id: ComponentManagerImplementationNotFoundException.java 7089 2007-11-25 15:19:06Z jvanzyl
 * $
 */
public class ComponentManagerImplementationNotFoundException
    extends Exception
{
    private static final long serialVersionUID = 2365017114180373632L;

    /**
     * Construct a new ComponentManagerImplementationNotFoundException instance.
     * @param message exception message
     */
    public ComponentManagerImplementationNotFoundException( String message )
    {
        super( message );
    }

    /**
     * Construct a new ComponentManagerImplementationNotFoundException instance.
     * @param message exception message
     * @param cause causing exception to chain
     */
    public ComponentManagerImplementationNotFoundException( String message, Throwable cause )
    {
        super( message, cause );
    }
}
package org.codehaus.plexus;

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```

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```
public class DuplicateChildContainerException
    extends PlexusContainerException
{

    private final String parent;
    private final String child;

    public DuplicateChildContainerException( String parent, String child )
    {
        super( "Cannot create child container, because child named \"" + child + "\" already exists in parent \"" + parent +
            "\".");

        this.parent = parent;

        this.child = child;
    }

    public String getParent()
    {
        return parent;
    }

    public String getChild()
    {
        return child;
    }

}
```

## 8.229 Plexus Classworlds 1.2-alpha-9

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## 8.251 Sisu-Inject-Bean : Aggregate OSGi bundle 2.2.3

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 */  
package org.sonatype.guice.bean.locators;
```

```
import org.sonatype.guice.bean.reflect.DeferredProvider;
```

```
import com.google.inject.Provider;
```

```

import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * {@link BindingTargetVisitor} that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
    extends DefaultBindingTargetVisitor<Object, Class<?>>
{
    // -----
    // Constants
    // -----

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // -----
    // Public methods
    // -----

    @Override
    public Class<?> visit( final UntargettedBinding<?> binding )
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final LinkedKeyBinding<?> binding )
    {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final ConstructorBinding<?> binding )
    {
        return binding.getConstructor().getDeclaringType().getRawType();
    }

    @Override
    public Class<?> visit( final InstanceBinding<?> binding )
    {
        return binding.getInstance().getClass();
    }
}

```

```

}

@Override
public Class<?> visit( final ProviderInstanceBinding<?> binding )
{
    final Provider<?> provider = binding.getProviderInstance();
    if ( provider instanceof DeferredProvider<?> )
    {
        try
        {
            // deferred providers let us peek at the underlying implementation type
            return ( (DeferredProvider<?>) provider ).getImplementationClass().load();
        }
        catch ( final TypeNotPresentException e ) // NOPMD
        {
            // fall-through
        }
    }
    return null;
}

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}
}

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*****/
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

import javax.inject.Qualifier;

/**
 * { @link Qualifier } used to record and tag implicit bindings (not for direct use).

```

```

*/
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = { } )
public @interface Implicit
{
}

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package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;

import org.sonatype.guice.bean.reflect.Logs;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @{ @link ImplementedBy}, @{ @link ProvidedBy}, and concrete types.
 */
final class ImplicitBindings
{
    // -----
    // Implementation fields
    // -----

    private final Iterable<Injector> injectors;

    // -----
    // Constructors
    // -----

    ImplicitBindings( final BeanLocator locator )
    {

```

```

injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
}

// -----
// Public methods
// -----

@SuppressWarnings( { "unchecked", "rawtypes" } )
public <T> Binding<T> get( final TypeLiteral<T> type )
{
    final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
    for ( final Injector i : injectors )
    {
        try
        {
            // first round: check for any re-written implicit bindings
            final Binding binding = i.getBindings().get( implicitKey );
            if ( null != binding )
            {
                Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }

    final Key justInTimeKey = Key.get( type );
    for ( final Injector i : injectors )
    {
        try
        {
            // second round: fall back to just-in-time lookup
            final Binding binding = i.getBinding( justInTimeKey );
            if ( InjectorPublisher.isVisible( binding ) )
            {
                Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }
    return null;
}

```

```
}  
}
```

## 8.252 Sisu-Inject-Bean : Aggregate OSGi bundle 2.3.0

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## 8.253 Sisu-Inject-Bean : legacy wrapper 2.5.0

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# 8.254 Sisu-Inject-Plexus : Aggregate OSGi bundle 2.2.3

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## 8.256 Sisu-Inject-Plexus : legacy wrapper

### 2.5.0

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## 8.260 southbound-api 1.1.0-Lithium

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## 8.262 table-miss-enforcer 0.0.4-Helium-SR1

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# 8.263 tcpmd5-api 1.0.1-Helium-SR1

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## 8.264 tcpmd5-jni 1.0.1-Helium-SR1

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```

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```
*
```

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```

```
*/
```

```
package org.opendaylight.openflowplugin.testcommon;
```

```
import java.math.BigInteger;
```

```
import java.util.concurrent.atomic.AtomicLong;
```

```
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
```

```
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
```

```
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
```

```
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowBuilder;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowCookie;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowModFlags;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Instructions;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Match;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
```

```
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
```

```

import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * provides cbench responder behavior: upon packetIn arrival addFlow action is sent out to
 * device using datastore strategy (FRM involved)
 */
public class DropTestCommitter extends AbstractDropTest {
    private final static Logger LOG = LoggerFactory.getLogger(DropTestCommitter.class);

    private DataBroker dataService;

    private static final AtomicLong idCounter = new AtomicLong();

    private static final ThreadLocal<FlowBuilder> BUILDER = new ThreadLocal<FlowBuilder>() {
        @Override
        protected FlowBuilder initialValue() {
            final FlowBuilder fb = new FlowBuilder();

            fb.setPriority(4);
            fb.setBufferId(0L);
            final FlowCookie cookie = new FlowCookie(BigInteger.TEN);
            fb.setCookie(cookie);
            fb.setCookieMask(cookie);

            fb.setTableId((short) 0);
            fb.setHardTimeout(300);
            fb.setIdleTimeout(240);
            fb.setFlags(new FlowModFlags(false, false, false, false, false));
            return fb;
        }
    };

    private NotificationProviderService notificationService;

    private ListenerRegistration<NotificationListener> notificationRegistration;

    /**
     * start listening on packetIn
     */
    public void start() {
        notificationRegistration = notificationService.registerNotificationListener(this);
    }

    /**

```

```

* @param dataService the dataService to set
*/
public void setDataService(DataBroker dataService) {
    this.dataService = dataService;
}

@Override
protected void processPacket(final NodeKey node, final Match match, final Instructions instructions) {

    // Finally build our flow
    final FlowBuilder fb = BUILDER.get();
    fb.setMatch(match);
    fb.setInstructions(instructions);
    fb.setId(new FlowId(String.valueOf(fb.hashCode()) + "." + String.valueOf(idCounter.getAndIncrement())));

    // Construct the flow instance id
    final InstanceIdentifier<Flow> flowInstanceId =
        InstanceIdentifier.builder(Nodes.class) // File under nodes
            .child(Node.class, node) // A particular node identified by nodeKey
            .augmentation(FlowCapableNode.class) // That is flow capable, only FlowCapableNodes have tables
            .child(Table.class, new TableKey((short) 0)) // In the table identified by TableKey
            .child(Flow.class, new FlowKey(fb.getId())) // A flow identified by flowKey
            .build();

    final Flow flow = fb.build();
    final ReadWriteTransaction transaction = dataService.newReadWriteTransaction();

    if (LOG.isDebugEnabled()) {
        LOG.debug("onPacketReceived - About to write flow {}", flow);
    }
    transaction.put(LogicalDatastoreType.CONFIGURATION, flowInstanceId, flow, true);
    transaction.submit();
    LOG.debug("onPacketReceived - About to write flow committed");
}

@Override
public void close() {
    try {
        LOG.debug("DropTestProvider stopped.");
        if (notificationRegistration != null) {
            notificationRegistration.close();
        }
    } catch (Exception e) {
        LOG.error("unregistration of notification listener failed", e);
    }
}

/**

```



```

    * @param notificationService
    */
    public void setNotificationService(NotificationProviderService notificationService) {
        this.notificationService = notificationService;
    }
}

```

## 8.266 test-extension 0.0.4-Helium-SR1

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```

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 *
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 */

module test-provider-impl {
    yang-version 1;
    namespace "urn:opendaylight:params:xml:ns:yang:controller:config:test-provider:impl";
    prefix "test-provider-impl";

    import config { prefix config; revision-date 2013-04-05; }
    import opendaylight-md-sal-binding { prefix mdsal; revision-date 2013-10-28; }

    revision "2014-06-11" {
        description
            "Initial revision.";
    }

    identity test-provider-impl {
        base "config:module-type";

        config:java-name-prefix TestProvider;
    }

    // Augments the 'configuration' choice node under modules/module.
    augment "/config:modules/config:module/config:configuration" {
        case test-provider-impl {
            when "/config:modules/config:module/config:type = 'test-provider-impl'";

            //wires in the data-broker service
            container data-broker {
                uses config:service-ref {
                    refine type {
                        mandatory true;
                    }
                }
            }
        }
    }
}

```

```

        config:required-identity mdsal:binding-async-data-broker;
    }
}
}
// RPC Registry
container rpc-registry {
    uses config:service-ref {
        refine type {
            mandatory true;
            config:required-identity mdsal:binding-rpc-registry;
        }
    }
}
}
}
}
}
}
}
}

```

## 8.267 test-provider 0.0.4-Helium-SR1

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```

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 */
package org.opendaylight.openflowplugin.test;

import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowAdded;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.NodeErrorNotification;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.NodeExperimenterErrorNotification;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SwitchFlowRemoved;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * dummy implementation flushing events into log
 */
public class FlowEventListenerLoggingImpl implements SalFlowListener {

    private static Logger LOG = LoggerFactory
        .getLogger(FlowEventListenerLoggingImpl.class);

```

```

@Override
public void onFlowAdded(FlowAdded notification) {
    LOG.info("flow to be added....." + notification.toString());
    LOG.info("added flow Xid....." + notification.getTransactionId().getValue());
    LOG.info("-----");
}

@Override
public void onFlowRemoved(FlowRemoved notification) {
    LOG.debug("removed flow....." + notification.toString());
    LOG.debug("remove flow Xid....." + notification.getTransactionId().getValue());
    LOG.debug("-----");
}

@Override
public void onFlowUpdated(FlowUpdated notification) {
    LOG.debug("updated flow....." + notification.toString());
    LOG.debug("updated flow Xid....." + notification.getTransactionId().getValue());
    LOG.debug("-----");
}

@Override
public void onNodeErrorNotification(NodeErrorNotification notification) {
    //commenting as we have a NodeErrorListener
    /* LOG.error("Error notification flow Xid....."
        + notification.getTransactionId().getValue());
    LOG.debug("notification Begin-Transaction:"
        + notification.getTransactionUri()
        + "-----");
    */
}

@Override
public void onNodeExperimenterErrorNotification(
    NodeExperimenterErrorNotification notification) {
    // TODO Auto-generated method stub
}

@Override
public void onSwitchFlowRemoved(SwitchFlowRemoved notification) {
    LOG.debug("Switch flow removed : Cookies....."
        + notification.getCookie().toString());
    LOG.debug("-----");
}
}

```

# 8.268 TinyRadius 1.0

## 8.268.1 Available under license :

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Version 2.1, February 1999

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## 8.269 topology-api 0.3.2-Helium-SR1

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## 8.274 underscore.string 2.3.3

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{
  "name": "underscore.string",
  "version": "2.3.3",
  "description": "String manipulation extensions for Underscore.js javascript library.",
  "homepage": "http://epeli.github.com/underscore.string/",
  "contributors": [
    "Esa-Matti Suuronen <esa-matti@suuronen.org> (http://esa-matti.suuronen.org/)",
    "Edward Tsech <edtsech@gmail.com>",
```

```

    "Pavel Pravosud <pavel@pravosud.com> (<https://github.com/rwz>)",
    "Sasha Koss <kossnocorp@gmail.com> (http://koss.nocorp.me/)",
    "Vladimir Dronnikov <dronnikov@gmail.com>",
    "Pete Kruckenberg (<https://github.com/kruckenb>)",
    "Paul Chavard <paul@chavard.net> (<http://tchak.net>)",
    "Ed Finkler <coj@funkatron.com> (<http://funkatron.com>)"
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  "bugs": {
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    {
      "type": "MIT"
    }
  ]
}

```

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# 8.279 yang-binding 0.6.3-Helium-SR1

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 */
package org.opendaylight.yangtools.yang.binding;

import java.io.IOException;

/**
 * SPI-level contract for implementations of {@link DataObjectSerializer}.
 * The contract is kept between implementation of {@link DataObjectSerializerRegistry},
 * which maintains the lookup context required for recursive serialization.
 *
 * FIXME: this interface needs to be moved into .spi, but due to classpath funkyness
 * of OSGi, that change has to be carefully orchestrated to ensure proper imports
 * exist in all generated packages. One avenue how to achieve that is to move
 * {@link YangModuleInfo} and modify code generator to add a static field
 * to all generated classes which will point to the per-model YangModuleInfo
 * (currently all users of it have to walk the package hierarchy, so that
 * is an improvement in and of itself).
 */
public interface DataObjectSerializerImplementation {
    /**
     *
     * Writes stream events for supplied data object to provided stream.
     *
     * DataObjectSerializerRegistry may be used to lookup serializers
     * for other generated classes in order to support writing
     * their events.
     */
    void serialize(DataObjectSerializerRegistry reg, DataObject obj, BindingStreamWriter stream) throws
    IOException;
}
/*
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```

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\*/

```
package org.opendaylight.yangtools.yang.binding;
```

```
import org.opendaylight.yangtools.util.HashCodeBuilder;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.IdentifiableItem;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.Item;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.PathArgument;
```

```
import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.Iterables;
```

```
final class InstanceIdentifierBuilderImpl<T extends DataObject> implements
```

```
InstanceIdentifier.InstanceIdentifierBuilder<T> {
```

```
    private final ImmutableList.Builder<PathArgument> pathBuilder = ImmutableList.builder();
    private final HashCodeBuilder<PathArgument> hashBuilder;
    private final Iterable<? extends PathArgument> basePath;
    private boolean wildcard = false;
    private PathArgument arg = null;
```

```
    InstanceIdentifierBuilderImpl() {
```

```
        this.hashBuilder = new HashCodeBuilder<>();
        this.basePath = null;
```

```
    }
```

```
    InstanceIdentifierBuilderImpl(final PathArgument item, final Iterable<? extends PathArgument> pathArguments,
final int hash, final boolean wildcard) {
```

```
        this.hashBuilder = new HashCodeBuilder<>(hash);
        this.basePath = pathArguments;
        this.wildcard = wildcard;
        this.arg = item;
```

```
    }
```

```
    @Override
```

```
    public int hashCode() {
        return hashBuilder.toInstance();
    }
```

```
    @SuppressWarnings("unchecked")
```

```
    <N extends DataObject> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> container) {
```

```
        arg = new Item<N>(container);
        hashBuilder.addArgument(arg);
        pathBuilder.add(arg);
```

```
        if (Identifiable.class.isAssignableFrom(container)) {
```

```
            wildcard = true;
```

```
        }
```

```

    return (InstanceIdentifierBuilderImpl<N>) this;
}

@SuppressWarnings("unchecked")
<N extends DataObject & Identifiable<K> , K extends Identifier<N>> InstanceIdentifierBuilderImpl<N>
addNode(final Class<N> listItem, final K listKey) {
    arg = new IdentifiableItem<N, K>(listItem, listKey);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);
    return (InstanceIdentifierBuilderImpl<N>) this;
}

@Override
public <N extends ChildOf<? super T>> InstanceIdentifierBuilderImpl<N> child(final Class<N> container) {
    return addNode(container);
}

@Override
public <N extends Identifiable<K> & ChildOf<? super T>, K extends Identifier<N>>
InstanceIdentifierBuilderImpl<N> child(final Class<N> listItem, final K listKey) {
    return addNode(listItem, listKey);
}

/**
 * Build an identifier which refers to a specific augmentation of the current InstanceIdentifier referenced by
 * the builder
 *
 * @param container
 * @param <N>
 * @return
 */
@Override
public <N extends DataObject & Augmentation<? super T>> InstanceIdentifierBuilderImpl<N>
augmentation(final Class<N> container) {
    return addNode(container);
}

@Override
public InstanceIdentifier<T> build() {
    Preconditions.checkState(arg != null, "No path arguments present");

    final Iterable<PathArgument> pathArguments;
    if (basePath == null) {
        pathArguments = pathBuilder.build();
    } else {
        pathArguments = Iterables.concat(basePath, pathBuilder.build());
    }
}

```

```

        @SuppressWarnings("unchecked")
        final InstanceIdentifier<T> ret = (InstanceIdentifier<T>) InstanceIdentifier.trustedCreate(arg, pathArguments,
hashBuilder.toInstance(), wildcard);
        return ret;
    }

    @Override
    public InstanceIdentifier<T> toInstance() {
        return build();
    }
}
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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.yangtools.yang.binding;

import java.util.Set;
import java.util.concurrent.Future;

import org.opendaylight.yangtools.yang.common.RpcResult;

public interface RpcImplementation {

    // Fixme: Change to RpcInput
    Set<Class<? extends DataContainer>> getSupportedInputs();

    // Fixme: Change to RpcInput
    <T extends DataContainer> Future<RpcResult<?>> invoke(Class<T> type, T input);
}

```

## 8.280 yang-common 0.6.3-Helium-SR1

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```

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package org.opendaylight.yangtools.yang.common;

```

```

import java.text.SimpleDateFormat;

public class SimpleDateFormatUtil {

    private static final ThreadLocal<SimpleDateFormat> REVISION_FORMAT = new
ThreadLocal<SimpleDateFormat>() {

        protected SimpleDateFormat initialValue() {
            return new SimpleDateFormat("yyyy-MM-dd");
        };

        public void set(SimpleDateFormat value) {
            throw new UnsupportedOperationException();
        };

    };

    public static SimpleDateFormat getRevisionFormat() {
        return REVISION_FORMAT.get();
    }
}

```

## 8.281 yang-ext 2013.09.07.4.1-Helium-SR1

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## 8.282 yang-model-api 0.6.3-Helium-SR1

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Microsoft Corporation  
Brian Wengert (bwengert79)  
Leslie Brody (Les1966)  
Michael M (M1xa)  
Matt Peterson (MattPeterson1)  
Dmitry Kolomiets (kolomiets)  
rdeterre  
DeCarabas  
luisfelio  
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===---

## 9.2 parson 1.6.6-rel/79

### 9.2.1 Available under license :

/\*

Parson ( <http://kgabis.github.com/parson/> )

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\*/

```
#ifndef parson_parson_h
```

```
#define parson_parson_h
```

```
#ifdef __cplusplus
```

```
extern "C"
```

```
{
```

```
#endif
```

```
#include <stddef.h> /* size_t */
```

```
/* Types and enums */
```

```

typedef struct json_object_t JSON_Object;
typedef struct json_array_t JSON_Array;
typedef struct json_value_t JSON_Value;

typedef enum json_value_type {
    JSONError = 0,
    JSONNull = 1,
    JSONString = 2,
    JSONNumber = 3,
    JSONObject = 4,
    JSONArray = 5,
    JSONBoolean = 6
} JSON_Value_Type;

/* Parses first JSON value in a file, returns NULL in case of error */
JSON_Value * json_parse_file(const char *filename);

/* Parses first JSON value in a string, returns NULL in case of error */
JSON_Value * json_parse_string(const char *string);

/* JSON Object */
JSON_Value * json_object_get_value (const JSON_Object *object, const char *name);
const char * json_object_get_string (const JSON_Object *object, const char *name);
JSON_Object * json_object_get_object (const JSON_Object *object, const char *name);
JSON_Array * json_object_get_array (const JSON_Object *object, const char *name);
double json_object_get_number (const JSON_Object *object, const char *name);
int json_object_get_boolean(const JSON_Object *object, const char *name);

/* dotget functions enable addressing values with dot notation in nested objects,
just like in structs or c++/java/c# objects (e.g. objectA.objectB.value).
Because valid names in JSON can contain dots, some values may be inaccessible
this way. */
JSON_Value * json_object_dotget_value (const JSON_Object *object, const char *name);
const char * json_object_dotget_string (const JSON_Object *object, const char *name);
JSON_Object * json_object_dotget_object (const JSON_Object *object, const char *name);
JSON_Array * json_object_dotget_array (const JSON_Object *object, const char *name);
double json_object_dotget_number (const JSON_Object *object, const char *name);
int json_object_dotget_boolean(const JSON_Object *object, const char *name);

/* Functions to get available names */
size_t json_object_get_count(const JSON_Object *object);
const char * json_object_get_name (const JSON_Object *object, size_t index);

/* JSON Array */
JSON_Value * json_array_get_value (const JSON_Array *array, size_t index);
const char * json_array_get_string (const JSON_Array *array, size_t index);
JSON_Object * json_array_get_object (const JSON_Array *array, size_t index);
JSON_Array * json_array_get_array (const JSON_Array *array, size_t index);

```



```

double    json_array_get_number (const JSON_Array *array, size_t index);
int       json_array_get_boolean(const JSON_Array *array, size_t index);
size_t    json_array_get_count  (const JSON_Array *array);

/* JSON Value */
JSON_Value_Type json_value_get_type  (const JSON_Value *value);
JSON_Object *   json_value_get_object(const JSON_Value *value);
JSON_Array *    json_value_get_array (const JSON_Value *value);
const char *    json_value_get_string(const JSON_Value *value);
double         json_value_get_number (const JSON_Value *value);
int            json_value_get_boolean(const JSON_Value *value);
void          json_value_free      (JSON_Value *value);

#ifdef __cplusplus
}
#endif

#endif

```

## 10.1 c3p0 0.9.5.2

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## 10.2 hsqldb 2.3.4

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