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## 2.7 Class Model for Hk2 2.4.0-b06

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/\*--

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That's all there is to it!

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Version 2.1, February 1999

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

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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Java ClassMate library was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi))

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## 2.25 hk2-utils 2.4.0-b06

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## 2.60 objenesis-2.1 2.1

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## 2.61 osgi-resource-locator 1.0.1

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## 2.65 slf4j-api 1.7.12

## 2.66 SnakeYAML 1.14

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```

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```

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## 2.71 spring-core-4.1.6.RELEASE 4.1.6

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## 2.73 spring-messaging-4.1.6.RELEASE 4.1.6

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That's all there is to it!

## 2.75 tiger-types 1.4

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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## 3.2 atk 1.30.0 :1.e16

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

However, unrestricted linking of non-free programs would deprive the

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

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

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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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```

```
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## 3.5 avahi 0.6.25 :15.e16

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That's all there is to it!  
#!/bin/sh

```
# $Id$
#
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# USA.

set -e

# Command line arguments:
# $1 event that happened:
# BIND: Successfully claimed address
# CONFLICT: An IP address conflict happened
```

```

# UNBIND: The IP address is no longer needed
# STOP: The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
BIND)
ifconfig "$2" "$3"/16
;;

CONFLICT|STOP|UNBIND)
ifconfig "$2" "$3"/16 delete
;;

*)
echo "Unknown event $1" >&2
exit 1
;;
esac

exit 0

```

## 3.6 axis 1.2.1 :7.5.el6\_5

### 3.6.1 Available under license :

```

/*
 * $Header: /home/cvs/jakarta-commons/discovery/LICENSE.txt,v 1.1 2002/07/25 02:36:45 jvanzyl Exp $
 * $Revision: 1.1 $
 * $Date: 2002/07/25 02:36:45 $
 *
 * =====
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* $Revision: 1.1 $
* $Date: 2005/04/22 14:42:41 $
*
* =====

```



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## 3.11 cloud-init 0.7.5

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

```
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(at your option) any later version.
```

```
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```

```
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```

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<program> Copyright (C) <year> <name of author>

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: cloud-init

Maintainer: Scott Moser <[scott.moser@canonical.com](mailto:scott.moser@canonical.com)>

Source: <https://launchpad.net/cloud-init>

This package was debianized by Soren Hansen <[soren@ubuntu.com](mailto:soren@ubuntu.com)> on Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to cloud-utils by Scott Moser <[scott.moser@canonical.com](mailto:scott.moser@canonical.com)>

Upstream Author: Scott Moser <[smoser@canonical.com](mailto:smoser@canonical.com)>

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## 3.12 cvs 1.11.23 :16.el6

### 3.12.1 Available under license :

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```
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```

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```

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```

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```
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```

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## 3.13 ecj 3.4.2 :6.e16

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# 3.14 ed 1.1 :3.3.el6

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Version 3, 29 June 2007

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## 3.15 fontconfig 2.8.0

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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The precise terms and conditions for copying, distribution and modification follow.

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@unnumberedsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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@unnumberedsubsec Appendix: How to Apply These Terms to Your New Programs

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

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

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@var{signature of Ty Coon}, 1 April 1989

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## 3.22 iso-codes 3.16 :2.el6

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* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
* MD5 crypt() function, which is licenced as follows:
* -----
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* -----
*/

```

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## 3.33 libfontenc 1.0.5 :2.el6

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```
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## 3.35 libjpeg-turbo 1.2.1 :3.el6\_5

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```
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## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO          Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt    How to configure and install the IJG software.  
usage.txt     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1          Unix-style man pages for programs (same info as usage.txt).  
wizard.txt    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.txt Overview of the JPEG library's internal structure.  
filelist.txt Road map of IJG files.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See

ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

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## FILE FORMAT WARS

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The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

## TO DO

=====

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

## 3.36 libselinux-python 2.0.94 :5.3.el6

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```
cat libselinux-2.0.94/libselinux-2.0.94/utils/avcstat.c
```

```
/*
```

```
* avcstat - Display SELinux avc statistics.
```

```
*
```

```
* Copyright (C) 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
```

```
*
```

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```

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* it under the terms of the GNU General Public License version 2,
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```
* as published by the Free Software Foundation.
```

```
*
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```
*/
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```
cat libselinux-2.0.94/libselinux-2.0.94/utils/avcstat.c
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* avcstat - Display SELinux avc statistics.
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```
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*/
```



## 3.37 libSM 1.2.1 :2.e16

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## 3.38 libthai 0.1.12 :3.el6

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HMAC: Keyed-Hashing for Message Authentication

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## 3.71 rsync 3.0.6

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Version 3, 29 June 2007

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## 3.75 setools-libs-python 3.3.7 :4.e16

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## 3.77 ttmkfdir 3.0.9 :32.1.el6

### 3.77.1 Available under license :

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=====

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Yu Shao <yshao@redhat.com>  
8 January 2003

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```
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Ty Coon, President of Vice
```

That's all there is to it!

## 3.78 wsdl4j 1.5.2 :7.8.e16

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# 3.81 xml-commons-resolver 1.1 :4.18.el6

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## 3.82 xorg-x11-font-utils 7.2 :11.e16

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## 4.28 flyway-core 3.1

## 4.29 geronimo-activation spec 1.1 :1.0.1

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## 4.37 Hibernate JPA API 2.1

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## 4.38 hibernate-c3p0 4.3.8-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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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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## 4.39 hibernate-core 4.3.8-final

### 4.39.1 Available under license :

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## 4.44 jackson-databind 2.6.5

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```
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```

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## 4.45 jackson-dataformat-xml 2.4.2

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## 4.47 Jackson-datatype-Joda 2.4.2

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## 4.48 jackson-jaxrs 1.9.2

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## 4.49 jackson-jaxrs-base 2.4.2

## 4.50 jackson-jaxrs-json-provider 2.4.2

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## 4.51 jackson-mapper-asl 1.9.2

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## 4.53 jackson-xc 1.9.2

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## 4.59 jboss-transaction-api 1.0.0.Final

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# 4.72 MIME streaming extension 1.6

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## 4.76 postgresql-jdbc 9.4 :1208

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\*/

```
package javax.servlet.jsp.tagext;
```

```
import java.io.Reader;  
import java.io.Writer;  
import java.io.IOException;  
import javax.servlet.jsp.*;
```

```
/**
```

```
* A JspWriter subclass that can be used to process body evaluations  
* so they can re-extracted later on.
```

```
*/
```

```
public abstract class BodyContent extends JspWriter {
```

```
/**
```

```
* Protected constructor.  
*  
* Unbounded buffer, no autoflushing.
```

```
*/
```

```
protected BodyContent(JspWriter e) {  
super(UNBOUNDED_BUFFER, false);  
this.enclosingWriter = e;  
}
```

```
/**
```

```
* Redefine flush().  
* It is not valid to flush.
```

```
*/
```

```

public void flush() throws IOException {
throw new IOException("Illegal to flush within a custom tag");
}

/**
 * Clear the body.
 */

public void clearBody() {
try {
this.clear();
} catch (IOException ex) {
// TODO -- clean this one up.
throw new Error("internal error!");
}
}

/**
 * Return the value of this BodyContent as a Reader.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @returns the value of this BodyContent as a Reader
 */
public abstract Reader getReader();

/**
 * Return the value of the BodyContent as a String.
 * Note: this is after evaluation!! There are no scriptlets,
 * etc in this stream.
 *
 * @returns the value of the BodyContent as a String
 */
public abstract String getString();

/**
 * Write the contents of this BodyContent into a Writer.
 * Subclasses are likely to do interesting things with the
 * implementation so some things are extra efficient.
 *
 * @param out The writer into which to place the contents of
 * this body evaluation
 */

public abstract void writeOut(Writer out) throws IOException;

/**
 * Get the enclosing JspWriter

```

```

*
* @returns the enclosing JspWriter passed at construction time
*/

public JspWriter getEnclosingWriter() {
return enclosingWriter;
}

/**
* private fields
*/

private JspWriter enclosingWriter;
}

```

## 4.79 slf4j 1.7.6

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### 1.0.1

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## 4.87 swagger-models 1.5.0

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## 4.89 tribes 6.0.16

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 */  
package org.apache.catalina.tribes.io;  
  
import java.util.LinkedList;
```

```

/**
 *
 * @author Filip Hanik
 * @version 1.0
 */
class BufferPool14Impl implements BufferPool.BufferPoolAPI {
    protected int maxSize;
    protected int size = 0;
    protected LinkedList queue = new LinkedList();

    public void setMaxSize(int bytes) {
        this.maxSize = bytes;
    }

    public synchronized int addAndGet(int val) {
        size = size + (val);
        return size;
    }

    public synchronized XByteBuffer getBuffer(int minSize, boolean discard) {
        XByteBuffer buffer = (XByteBuffer)(queue.size()>0?queue.remove(0):null);
        if ( buffer != null ) addAndGet(-buffer.getCapacity());
        if ( buffer == null ) buffer = new XByteBuffer(minSize,discard);
        else if ( buffer.getCapacity() <= minSize ) buffer.expand(minSize);
        buffer.setDiscard(discard);
        buffer.reset();
        return buffer;
    }

    public synchronized void returnBuffer(XByteBuffer buffer) {
        if ( (size + buffer.getCapacity()) <= maxSize ) {
            addAndGet(buffer.getCapacity());
            queue.add(buffer);
        }
    }

    public synchronized void clear() {
        queue.clear();
        size = 0;
    }

    public int getMaxSize() {
        return maxSize;
    }
}

```

```

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 */
package org.apache.catalina.tribes.io;

import java.util.concurrent.ConcurrentLinkedQueue;
import java.util.concurrent.atomic.AtomicInteger;

/**
 *
 * @author Filip Hanik
 * @version 1.0
 */
class BufferPool15Impl implements BufferPool.BufferPoolAPI {
    protected int maxSize;
    protected AtomicInteger size = new AtomicInteger(0);
    protected ConcurrentLinkedQueue queue = new ConcurrentLinkedQueue();

    public void setMaxSize(int bytes) {
        this.maxSize = bytes;
    }

    public XByteBuffer getBuffer(int minSize, boolean discard) {
        XByteBuffer buffer = (XByteBuffer)queue.poll();
        if ( buffer != null ) size.addAndGet(-buffer.getCapacity());
        if ( buffer == null ) buffer = new XByteBuffer(minSize,discard);
        else if ( buffer.getCapacity() <= minSize ) buffer.expand(minSize);
        buffer.setDiscard(discard);
        buffer.reset();
        return buffer;
    }

    public void returnBuffer(XByteBuffer buffer) {

```

```

        if ( (size.get() + buffer.getCapacity()) <= maxSize ) {
            size.addAndGet(buffer.getCapacity());
            queue.offer(buffer);
        }
    }

    public void clear() {
        queue.clear();
        size.set(0);
    }

    public int getMaxSize() {
        return maxSize;
    }
}

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 */

package org.apache.catalina.tribes.io;

import java.io.IOException;
import java.io.InputStream;
import java.io.ObjectInputStream;
import java.io.ObjectStreamClass;

/**
 * Custom subclass of <code>ObjectInputStream</code> that loads from the
 * class loader for this web application. This allows classes defined only
 * with the web application to be found correctly.
 *
 * @author Craig R. McClanahan
 * @author Bip Thelin

```

```
* @author Filip Hanik
* @version $Revision: 467173 $, $Date: 2006-10-24 01:12:17 +0200 (mar., 24 oct. 2006) $
*/
```

```
public final class ReplicationStream extends ObjectInputStream {

    /**
     * The class loader we will use to resolve classes.
     */
    private ClassLoader[] classLoaders = null;

    /**
     * Construct a new instance of CustomObjectInputStream
     *
     * @param stream The input stream we will read from
     * @param classLoader The class loader used to instantiate objects
     *
     * @exception IOException if an input/output error occurs
     */
    public ReplicationStream(InputStream stream,
                               ClassLoader[] classLoaders)
        throws IOException {

        super(stream);
        this.classLoaders = classLoaders;
    }

    /**
     * Load the local class equivalent of the specified stream class
     * description, by using the class loader assigned to this Context.
     *
     * @param classDesc Class description from the input stream
     *
     * @exception ClassNotFoundException if this class cannot be found
     * @exception IOException if an input/output error occurs
     */
    public Class resolveClass(ObjectStreamClass classDesc)
        throws ClassNotFoundException, IOException {
        String name = classDesc.getName();
        boolean tryRepFirst = name.startsWith("org.apache.catalina.tribes");
        try {
            try
            {
                if ( tryRepFirst ) return findReplicationClass(name);
                else return findExternalClass(name);
            }
        }
    }
}
```

```

    catch ( Exception x )
    {
        if ( tryRepFirst ) return findExternalClass(name);
        else return findReplicationClass(name);
    }
} catch (ClassNotFoundException e) {
    return super.resolveClass(classDesc);
}
}

public Class findReplicationClass(String name)
    throws ClassNotFoundException, IOException {
    Class clazz = Class.forName(name, false, getClass().getClassLoader());
    return clazz;
}

public Class findExternalClass(String name) throws ClassNotFoundException {
    ClassNotFoundException cnfe = null;
    for (int i=0; i<classLoaders.length; i++) {
        try {
            Class clazz = Class.forName(name, false, classLoaders[i]);
            return clazz;
        } catch ( ClassNotFoundException x ) {
            cnfe = x;
        }
    }
    if ( cnfe != null ) throw cnfe;
    else throw new ClassNotFoundException(name);
}

public void close() throws IOException {
    this.classLoaders = null;
    super.close();
}
}

```

```

}
/*

```

```

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```
package org.apache.catalina.tribes.membership;
```

```
import java.io.IOException;  
import java.net.DatagramPacket;  
import java.net.InetAddress;  
import java.net.InetSocketAddress;  
import java.net.MulticastSocket;  
import java.net.SocketTimeoutException;  
import java.util.Arrays;
```

```
import org.apache.catalina.tribes.Channel;  
import org.apache.catalina.tribes.Member;  
import org.apache.catalina.tribes.MembershipListener;  
import java.net.BindException;
```

```
/**
```

```
* A <b>membership</b> implementation using simple multicast.  
* This is the representation of a multicast membership service.  
* This class is responsible for maintaining a list of active cluster nodes in the cluster.  
* If a node fails to send out a heartbeat, the node will be dismissed.  
* This is the low level implementation that handles the multicasting sockets.  
* Need to fix this, could use java.nio and only need one thread to send and receive, or  
* just use a timeout on the receive  
* @author Filip Hanik  
* @version $Revision: 586228 $, $Date: 2007-10-19 04:16:41 +0200 (ven., 19 oct. 2007) $  
*/
```

```
public class McastServiceImpl
```

```
{
```

```
    private static org.apache.juli.logging.Log log =  
        org.apache.juli.logging.LogFactory.getLog( McastService.class );
```

```
    protected static int MAX_PACKET_SIZE = 65535;
```

```
    /**
```

```
     * Internal flag used for the listen thread that listens to the multicasting socket.
```

```
    */
```

```
    protected boolean doRunSender = false;
```

```
    protected boolean doRunReceiver = false;
```

```
    protected int startLevel = 0;
```

```
    /**
```

```
     * Socket that we intend to listen to
```

```
    */
```

```

protected MulticastSocket socket;
/**
 * The local member that we intend to broad cast over and over again
 */
protected MemberImpl member;
/**
 * The multicast address
 */
protected InetAddress address;
/**
 * The multicast port
 */
protected int port;
/**
 * The time it takes for a member to expire.
 */
protected long timeToExpiration;
/**
 * How often to we send out a broadcast saying we are alive, must be smaller than timeToExpiration
 */
protected long sendFrequency;
/**
 * Reuse the sendPacket, no need to create a new one everytime
 */
protected DatagramPacket sendPacket;
/**
 * Reuse the receivePacket, no need to create a new one everytime
 */
protected DatagramPacket receivePacket;
/**
 * The membership, used so that we calculate memberships when they arrive or don't arrive
 */
protected Membership membership;
/**
 * The actual listener, for callback when shits goes down
 */
protected MembershipListener service;
/**
 * Thread to listen for pings
 */
protected ReceiverThread receiver;
/**
 * Thread to send pings
 */
protected SenderThread sender;

/**
 * When was the service started

```



```

*/
protected long serviceStartTime = System.currentTimeMillis();

/**
 * Time to live for the multicast packets that are being sent out
 */
protected int mcastTTL = -1;
/**
 * Read timeout on the mcast socket
 */
protected int mcastSoTimeout = -1;
/**
 * bind address
 */
protected InetAddress mcastBindAddress = null;

/**
 * nr of times the system has to fail before a recovery is initiated
 */
protected int recoveryCounter = 10;

/**
 * The time the recovery thread sleeps between recovery attempts
 */
protected long recoverySleepTime = 5000;

/**
 * Add the ability to turn on/off recovery
 */
protected boolean recoveryEnabled = true;
/**
 * Create a new mcast service impl
 * @param member - the local member
 * @param sendFrequency - the time (ms) in between pings sent out
 * @param expireTime - the time (ms) for a member to expire
 * @param port - the mcast port
 * @param bind - the bind address (not sure this is used yet)
 * @param mcastAddress - the mcast address
 * @param service - the callback service
 * @throws IOException
 */
public McastServiceImpl(
    MemberImpl member,
    long sendFrequency,
    long expireTime,
    int port,
    InetAddress bind,
    InetAddress mcastAddress,

```

```

    int ttl,
    int soTimeout,
    MembershipListener service)
throws IOException {
    this.member = member;
    this.address = mcastAddress;
    this.port = port;
    this.mcastSoTimeout = soTimeout;
    this.mcastTTL = ttl;
    this.mcastBindAddress = bind;
    this.timeToExpiration = expireTime;
    this.service = service;
    this.sendFrequency = sendFrequency;
    init();
}

public void init() throws IOException {
    setupSocket();
    sendPacket = new DatagramPacket(new byte[MAX_PACKET_SIZE],MAX_PACKET_SIZE);
    sendPacket.setAddress(address);
    sendPacket.setPort(port);
    receivePacket = new DatagramPacket(new byte[MAX_PACKET_SIZE],MAX_PACKET_SIZE);
    receivePacket.setAddress(address);
    receivePacket.setPort(port);
    member.setCommand(new byte[0]);
    member.getData(true, true);
    if ( membership == null ) membership = new Membership(member);
}

protected void setupSocket() throws IOException {
    if (mcastBindAddress != null) {
        try {
            log.info("Attempting to bind the multicast socket to "+address+":"+port);
            socket = new MulticastSocket(new InetSocketAddress(address,port));
        } catch (BindException e) {
            /*
             * On some platforms (e.g. Linux) it is not possible to bind
             * to the multicast address. In this case only bind to the
             * port.
             */
            log.info("Binding to multicast address, failed. Binding to port only.");
            socket = new MulticastSocket(port);
        }
    } else {
        socket = new MulticastSocket(port);
    }
    socket.setLoopbackMode(false); //hint that we don't need loop back messages
    if (mcastBindAddress != null) {

```

```

if(log.isInfoEnabled())
    log.info("Setting multihome multicast interface to:" +mcastBindAddress);
    socket.setInterface(mcastBindAddress);
} //end if
//force a so timeout so that we don't block forever
if ( mcastSoTimeout <= 0 ) mcastSoTimeout = (int)sendFrequency;
if(log.isInfoEnabled())
    log.info("Setting cluster mcast soTimeout to "+mcastSoTimeout);
socket.setSoTimeout(mcastSoTimeout);

if ( mcastTTL >= 0 ) {
if(log.isInfoEnabled())
    log.info("Setting cluster mcast TTL to " + mcastTTL);
    socket.setTimeToLive(mcastTTL);
}
}

/**
 * Start the service
 * @param level 1 starts the receiver, level 2 starts the sender
 * @throws IOException if the service fails to start
 * @throws IllegalStateException if the service is already started
 */
public synchronized void start(int level) throws IOException {
    boolean valid = false;
    if ( (level & Channel.MBR_RX_SEQ)==Channel.MBR_RX_SEQ ) {
        if ( receiver != null ) throw new IllegalStateException("McastService.receive already running.");
        if ( sender == null ) socket.joinGroup(address);
        doRunReceiver = true;
        receiver = new ReceiverThread();
        receiver.setDaemon(true);
        receiver.start();
        valid = true;
    }
    if ( (level & Channel.MBR_TX_SEQ)==Channel.MBR_TX_SEQ ) {
        if ( sender != null ) throw new IllegalStateException("McastService.send already running.");
        if ( receiver == null ) socket.joinGroup(address);
        //make sure at least one packet gets out there
        send(false);
        doRunSender = true;
        serviceStartTime = System.currentTimeMillis();
        sender = new SenderThread(sendFrequency);
        sender.setDaemon(true);
        sender.start();
        //we have started the receiver, but not yet waited for membership to establish
        valid = true;
    }
}

```

```

    }
    if (!valid) {
        throw new IllegalArgumentException("Invalid start level. Only acceptable levels are
Channel.MBR_RX_SEQ and Channel.MBR_TX_SEQ");
    }
    //pause, once or twice
    waitForMembers(level);
    startLevel = (startLevel | level);
}

private void waitForMembers(int level) {
    long memberwait = sendFrequency*2;
    if(log.isInfoEnabled())
        log.info("Sleeping for "+memberwait+" milliseconds to establish cluster membership, start level:"+level);
    try {Thread.sleep(memberwait);}catch (InterruptedException ignore){}
    if(log.isInfoEnabled())
        log.info("Done sleeping, membership established, start level:"+level);
}

/**
 * Stops the service
 * @throws IOException if the service fails to disconnect from the sockets
 */
public synchronized boolean stop(int level) throws IOException {
    boolean valid = false;

    if ( (level & Channel.MBR_RX_SEQ)==Channel.MBR_RX_SEQ ) {
        valid = true;
        doRunReceiver = false;
        if ( receiver !=null ) receiver.interrupt();
        receiver = null;
    }
    if ( (level & Channel.MBR_TX_SEQ)==Channel.MBR_TX_SEQ ) {
        valid = true;
        doRunSender = false;
        if ( sender != null )sender.interrupt();
        sender = null;
    }

    if (!valid) {
        throw new IllegalArgumentException("Invalid stop level. Only acceptable levels are
Channel.MBR_RX_SEQ and Channel.MBR_TX_SEQ");
    }
    startLevel = (startLevel & (~level));
    //we're shutting down, send a shutdown message and close the socket
    if ( startLevel == 0 ) {
        //send a stop message
        member.setCommand(Member.SHUTDOWN_PAYLOAD);
    }
}

```

```

        member.getData(true, true);
        send(false);
        //leave mcast group
        try {socket.leaveGroup(address);}catch ( Exception ignore){}
        serviceStartTime = Long.MAX_VALUE;
    }
    return (startLevel == 0);
}

/**
 * Receive a datagram packet, locking wait
 * @throws IOException
 */
public void receive() throws IOException {
    try {
        socket.receive(receivePacket);
        if(receivePacket.getLength() > MAX_PACKET_SIZE) {
            log.error("Multicast packet received was too long, dropping package:"+receivePacket.getLength());
        } else {
            byte[] data = new byte[receivePacket.getLength()];
            System.arraycopy(receivePacket.getData(), receivePacket.getOffset(), data, 0, data.length);
            final MemberImpl m = MemberImpl.getMember(data);
            if (log.isTraceEnabled()) log.trace("Mcast receive ping from member " + m);
            Thread t = null;
            if (Arrays.equals(m.getCommand(), Member.SHUTDOWN_PAYLOAD)) {
                if (log.isDebugEnabled()) log.debug("Member has shutdown:" + m);
                membership.removeMember(m);
                t = new Thread() {
                    public void run() {
                        service.memberDisappeared(m);
                    }
                };
            } else if (membership.memberAlive(m)) {
                if (log.isDebugEnabled()) log.debug("Mcast add member " + m);
                t = new Thread() {
                    public void run() {
                        service.memberAdded(m);
                    }
                };
            } //end if
            if ( t != null ) t.start();
        }
    } catch (SocketTimeoutException x ) {
        //do nothing, this is normal, we don't want to block forever
        //since the receive thread is the same thread
        //that does membership expiration
    }
    checkExpired();
}

```

```

}

protected Object expiredMutex = new Object();
protected void checkExpired() {
    synchronized (expiredMutex) {
        MemberImpl[] expired = membership.expire(timeToExpiration);
        for (int i = 0; i < expired.length; i++) {
            final MemberImpl member = expired[i];
            if (log.isDebugEnabled())
                log.debug("Mcast expire member " + expired[i]);
            try {
                Thread t = new Thread() {
                    public void run() {
                        service.memberDisappeared(member);
                    }
                };
                t.start();
            } catch (Exception x) {
                log.error("Unable to process member disappeared message.", x);
            }
        }
    }
}

/**
 * Send a ping
 * @throws Exception
 */
public void send(boolean checkexpired) throws IOException{
    //ignore if we haven't started the sender
    //if ( (startLevel&Channel.MBR_TX_SEQ) != Channel.MBR_TX_SEQ ) return;
    member.inc();
    if(log.isTraceEnabled())
        log.trace("Mcast send ping from member " + member);
    byte[] data = member.getData();
    DatagramPacket p = new DatagramPacket(data,data.length);
    p.setAddress(address);
    p.setPort(port);
    socket.send(p);
    if ( checkexpired ) checkExpired();
}

public long getServiceStartTime() {
    return this.serviceStartTime;
}

public int getRecoveryCounter() {
    return recoveryCounter;
}

```

```

    }

    public boolean isRecoveryEnabled() {
        return recoveryEnabled;
    }

    public long getRecoverySleepTime() {
        return recoverySleepTime;
    }

    public class ReceiverThread extends Thread {
        int errorCounter = 0;
        public ReceiverThread() {
            super();
            setName("Tribes-MembershipReceiver");
        }
        public void run() {
            while ( doRunReceiver ) {
                try {
                    receive();
                    errorCounter=0;
                } catch ( ArrayIndexOutOfBoundsException ax ) {
                    //we can ignore this, as it means we have an invalid package
                    //but we will log it to debug
                    if ( log.isDebugEnabled() )
                        log.debug("Invalid member mcast package.",ax);
                } catch ( Exception x ) {
                    if (errorCounter==0) log.warn("Error receiving mcast package. Sleeping 500ms",x);
                    else log.debug("Error receiving mcast package. Sleeping 500ms",x);
                    try { Thread.sleep(500); } catch ( Exception ignore ){}
                    if ( (++errorCounter)>=recoveryCounter ) {
                        errorCounter=0;
                        new RecoveryThread(McastServiceImpl.this);
                    }
                }
            }
        }
    }
} //class ReceiverThread

public class SenderThread extends Thread {
    long time;
    int errorCounter=0;
    public SenderThread(long time) {
        this.time = time;
        setName("Tribes-MembershipSender");
    }
    public void run() {

```

```
while ( doRunSender ) {
    try {
        send(true);
        errorCounter = 0;
    } catch ( Exception x ) {
        if (errorCounter==0) log.warn("Unable to send mcast message.",x);
        else log.debug("Unable to send mcast message.",x);
        if ( (++errorCounter)>=recoveryCounter ) {
            errorCounter=0;
            new RecoveryThread(McastServiceImpl.this);
        }
    }
    try { Thread.sleep(time); } catch ( Exception ignore ) {}
}
}
```

  

```
}//class SenderThread
```

```
protected static class RecoveryThread extends Thread {
    static boolean running = false;
    McastServiceImpl parent = null;
    public RecoveryThread(McastServiceImpl parent) {
        this.parent = parent;
        if (!init(this)) parent = null;
    }

    public static synchronized boolean init(RecoveryThread t) {
        if ( running ) return false;
        if ( !t.parent.isRecoveryEnabled() ) return false;
        running = true;
        t.setName("Tribes-MembershipRecovery");
        t.setDaemon(true);
        t.start();
        return true;
    }

    public boolean stopService() {
        try {
            parent.stop(Channel.MBR_RX_SEQ | Channel.MBR_TX_SEQ);
            return true;
        } catch (Exception x) {
            log.warn("Recovery thread failed to stop membership service.", x);
            return false;
        }
    }

    public boolean startService() {
        try {
            parent.init();
            parent.start(Channel.MBR_RX_SEQ | Channel.MBR_TX_SEQ);
        }
    }
}
```



```

        return true;
    } catch (Exception x) {
        log.warn("Recovery thread failed to start membership service.", x);
        return false;
    }
}

public void run() {
    boolean success = false;
    int attempt = 0;
    try {
        while (!success) {
            if(log.isInfoEnabled())
                log.info("Tribes membership, running recovery thread, multicasting is not functional.");
            if (stopService() & startService()) {
                success = true;
                if(log.isInfoEnabled())
                    log.info("Membership recovery was successful.");
            }
            try {
                if (!success) {
                    if(log.isInfoEnabled())
                        log.info("Recovery attempt "+(++attempt)+" failed, trying again in "
+parent.recoverySleepTime+ " seconds");
                    Thread.sleep(parent.recoverySleepTime);
                }
            } catch (InterruptedException ignore) {
            }
        }
    } finally {
        running = false;
    }
}

public void setRecoveryCounter(int recoveryCounter) {
    this.recoveryCounter = recoveryCounter;
}

public void setRecoveryEnabled(boolean recoveryEnabled) {
    this.recoveryEnabled = recoveryEnabled;
}

public void setRecoverySleepTime(long recoverySleepTime) {
    this.recoverySleepTime = recoverySleepTime;
}
}
/*
* Licensed to the Apache Software Foundation (ASF) under one or more

```

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- \*/

```
package org.apache.catalina.tribes.membership;
```

```
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.util.Arrays;
```

```
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.io.XByteBuffer;
import org.apache.catalina.tribes.transport.SenderState;
```

```
/**
```

- \* A <b>membership</b> implementation using simple multicast.
- \* This is the representation of a multicast member.
- \* Carries the host, and port of the this or other cluster nodes.
- \*
- \* @author Filip Hanik
- \* @version \$Revision: 613209 \$, \$Date: 2008-01-18 18:29:08 +0100 (ven., 18 janv. 2008) \$
- \*/

```
public class MemberImpl implements Member, java.io.Externalizable {
```

```
    /**
```

- \* Should a call to getName or getHostName try to do a DNS lookup?
- \* default is false
- \*/

```
    public static final boolean DO_DNS_LOOKUPS =
    Boolean.parseBoolean(System.getProperty("org.apache.catalina.tribes.dns_lookups", "false"));
```

```
    /**
```

- \* Public properties specific to this implementation
- \*/

```
    public static final transient String TCP_LISTEN_PORT = "tcpListenPort";
    public static final transient String TCP_LISTEN_HOST = "tcpListenHost";
    public static final transient String MEMBER_NAME = "memberName";
```

```

public static final transient byte[] TRIBES_MBR_BEGIN = new byte[] {84, 82, 73, 66, 69, 83, 45, 66};
public static final transient byte[] TRIBES_MBR_END = new byte[] {84, 82, 73, 66, 69, 83, 45, 69};

/**
 * The listen host for this member
 */
protected byte[] host;
protected transient String hostname;
/**
 * The tcp listen port for this member
 */
protected int port;

/**
 * The tcp/SSL listen port for this member
 */
protected int securePort = -1;

/**
 * Counter for how many broadcast messages have been sent from this member
 */
protected int msgCount = 0;
/**
 * The number of milliseconds since this members was
 * created, is kept track of using the start time
 */
protected long memberAliveTime = 0;

/**
 * For the local member only
 */
protected transient long serviceStartTime;

/**
 * To avoid serialization over and over again, once the local dataPkg
 * has been set, we use that to transmit data
 */
protected transient byte[] dataPkg = null;

/**
 * Unique session Id for this member
 */
protected byte[] uniqueId = new byte[16];

/**
 * Custom payload that an app framework can broadcast
 * Also used to transport stop command.

```

```

*/
protected byte[] payload = new byte[0];

/**
 * Command, so that the custom payload doesn't have to be used
 * This is for internal tribes use, such as SHUTDOWN_COMMAND
 */
protected byte[] command = new byte[0];

/**
 * Domain if we want to filter based on domain.
 */
protected byte[] domain = new byte[0];

/**
 * Empty constructor for serialization
 */
public MemberImpl() {

}

/**
 * Construct a new member object
 * @param name - the name of this member, cluster unique
 * @param domain - the cluster domain name of this member
 * @param host - the tcp listen host
 * @param port - the tcp listen port
 */
public MemberImpl(String host,
                  int port,
                  long aliveTime) throws IOException {
    setHostname(host);
    this.port = port;
    this.memberAliveTime=aliveTime;
}

public MemberImpl(String host,
                  int port,
                  long aliveTime,
                  byte[] payload) throws IOException {
    this(host,port,aliveTime);
    setPayload(payload);
}

public boolean isReady() {
    return SenderState.getSenderState(this).isReady();
}

public boolean isSuspect() {

```

```

    return SenderState.getSenderState(this).isSuspect();
}
public boolean isFailing() {
    return SenderState.getSenderState(this).isFailing();
}

/**
 * Increment the message count.
 */
protected void inc() {
    msgCount++;
}

/**
 * Create a data package to send over the wire representing this member.
 * This is faster than serialization.
 * @return - the bytes for this member deserialized
 * @throws Exception
 */
public byte[] getData() {
    return getData(true);
}

/**
 * Highly optimized version of serializing a member into a byte array
 * Returns a cached byte[] reference, do not modify this data
 * @param getalive boolean
 * @return byte[]
 */
public byte[] getData(boolean getalive) {
    return getData(getalive,false);
}

public int getDataLength() {
    return TRIBES_MBR_BEGIN.length+ //start pkg
        4+ //data length
        8+ //alive time
        4+ //port
        4+ //secure port
        1+ //host length
        host.length+ //host
        4+ //command length
        command.length+ //command
        4+ //domain length
        domain.length+ //domain
        16+ //unique id
        4+ //payload length
        payload.length+ //payload

```

```

        TRIBES_MBR_END.length; //end pkg
    }

/**
 *
 * @param getalive boolean - calculate memberAlive time
 * @param reset boolean - reset the cached data package, and create a new one
 * @return byte[]
 */
public byte[] getData(boolean getalive, boolean reset) {
    if ( reset ) dataPkg = null;
    //look in cache first
    if ( dataPkg!=null ) {
        if ( getalive ) {
            //you'd be surprised, but System.currentTimeMillis
            //shows up on the profiler
            long alive=System.currentTimeMillis()-getServiceStartTime();
            XByteBuffer.toBytes( (long) alive, dataPkg, TRIBES_MBR_BEGIN.length+4);
        }
        return dataPkg;
    }

    //package looks like
    //start package TRIBES_MBR_BEGIN.length
    //package length - 4 bytes
    //alive - 8 bytes
    //port - 4 bytes
    //secure port - 4 bytes
    //host length - 1 byte
    //host - hl bytes
    //clen - 4 bytes
    //command - clen bytes
    //dlen - 4 bytes
    //domain - dlen bytes
    //uniqueId - 16 bytes
    //payload length - 4 bytes
    //payload plen bytes
    //end package TRIBES_MBR_END.length
    byte[] addr = host;
    long alive=System.currentTimeMillis()-getServiceStartTime();
    byte hl = (byte)addr.length;
    byte[] data = new byte[getDataLength()];

    int bodylength = (getDataLength() - TRIBES_MBR_BEGIN.length - TRIBES_MBR_END.length - 4);

    int pos = 0;

    //TRIBES_MBR_BEGIN

```

```

System.arraycopy(TRIBES_MBR_BEGIN,0,data,pos,TRIBES_MBR_BEGIN.length);
pos += TRIBES_MBR_BEGIN.length;

//body length
XByteBuffer.toBytes(bodylength,data,pos);
pos += 4;

//alive data
XByteBuffer.toBytes((long)alive,data,pos);
pos += 8;
//port
XByteBuffer.toBytes(port,data,pos);
pos += 4;
//secure port
XByteBuffer.toBytes(securePort,data,pos);
pos += 4;
//host length
data[pos++] = hl;
//host
System.arraycopy(addr,0,data,pos,addr.length);
pos+=addr.length;
//clen - 4 bytes
XByteBuffer.toBytes(command.length,data,pos);
pos+=4;
//command - clen bytes
System.arraycopy(command,0,data,pos,command.length);
pos+=command.length;
//dlen - 4 bytes
XByteBuffer.toBytes(domain.length,data,pos);
pos+=4;
//domain - dlen bytes
System.arraycopy(domain,0,data,pos,domain.length);
pos+=domain.length;
//unique Id
System.arraycopy(uniqueId,0,data,pos,uniqueId.length);
pos+=uniqueId.length;
//payload
XByteBuffer.toBytes(payload.length,data,pos);
pos+=4;
System.arraycopy(payload,0,data,pos,payload.length);
pos+=payload.length;

//TRIBES_MBR_END
System.arraycopy(TRIBES_MBR_END,0,data,pos,TRIBES_MBR_END.length);
pos += TRIBES_MBR_END.length;

//create local data
dataPkg = data;

```

```

    return data;
}
/**
 * Deserializes a member from data sent over the wire
 * @param data - the bytes received
 * @return a member object.
 */
public static MemberImpl getMember(byte[] data, MemberImpl member) {
    return getMember(data,0,data.length,member);
}

public static MemberImpl getMember(byte[] data, int offset, int length, MemberImpl member) {
    //package looks like
    //start package TRIBES_MBR_BEGIN.length
    //package length - 4 bytes
    //alive - 8 bytes
    //port - 4 bytes
    //secure port - 4 bytes
    //host length - 1 byte
    //host - hl bytes
    //clen - 4 bytes
    //command - clen bytes
    //dlen - 4 bytes
    //domain - dlen bytes
    //uniqueId - 16 bytes
    //payload length - 4 bytes
    //payload plen bytes
    //end package TRIBES_MBR_END.length

    int pos = offset;

    if (XByteBuffer.indexOf(data,offset,TRIBES_MBR_BEGIN)!=pos) {
        throw new IllegalArgumentException("Invalid package, should start
with:"+org.apache.catalina.tribes.util.Arrays.toString(TRIBES_MBR_BEGIN));
    }

    if ( length < (TRIBES_MBR_BEGIN.length+4) ) {
        throw new ArrayIndexOutOfBoundsException("Member package too small to validate.");
    }

    pos += TRIBES_MBR_BEGIN.length;

    int bodylength = XByteBuffer.toInt(data,pos);
    pos += 4;

    if ( length < (bodylength+4+TRIBES_MBR_BEGIN.length+TRIBES_MBR_END.length) ) {
        throw new ArrayIndexOutOfBoundsException("Not enough bytes in member package.");
    }
}

```



```
int endpos = pos+bodylength;
if (XByteBuffer.indexOf(data,endpos,TRIBES_MBR_END)!=endpos) {
    throw new IllegalArgumentException("Invalid package, should end
with:"+org.apache.catalina.tribes.util.Arrays.toString(TRIBES_MBR_END));
}
```

```
byte[] alived = new byte[8];
System.arraycopy(data, pos, alived, 0, 8);
pos += 8;
byte[] portd = new byte[4];
System.arraycopy(data, pos, portd, 0, 4);
pos += 4;
```

```
byte[] sportd = new byte[4];
System.arraycopy(data, pos, sportd, 0, 4);
pos += 4;
```

```
byte hl = data[pos++];
byte[] addr = new byte[hl];
System.arraycopy(data, pos, addr, 0, hl);
pos += hl;
```

```
int cl = XByteBuffer.toInt(data, pos);
pos += 4;
```

```
byte[] command = new byte[cl];
System.arraycopy(data, pos, command, 0, command.length);
pos += command.length;
```

```
int dl = XByteBuffer.toInt(data, pos);
pos += 4;
```

```
byte[] domain = new byte[dl];
System.arraycopy(data, pos, domain, 0, domain.length);
pos += domain.length;
```

```
byte[] uniqueId = new byte[16];
System.arraycopy(data, pos, uniqueId, 0, 16);
pos += 16;
```

```
int pl = XByteBuffer.toInt(data, pos);
pos += 4;
```

```
byte[] payload = new byte[pl];
```

```

System.arraycopy(data, pos, payload, 0, payload.length);
pos += payload.length;

member.setHost(addr);
member.setPort(XByteBuffer.toInt(portd, 0));
member.setSecurePort(XByteBuffer.toInt(sportd, 0));
member.setMemberAliveTime(XByteBuffer.toLong(alived, 0));
member.setUniqueId(uniqueId);
member.payload = payload;
member.domain = domain;
member.command = command;

member.dataPkg = new byte[length];
System.arraycopy(data, offset, member.dataPkg, 0, length);

return member;
}

public static MemberImpl getMember(byte[] data) {
    return getMember(data,new MemberImpl());
}

public static MemberImpl getMember(byte[] data, int offset, int length) {
    return getMember(data,offset,length,new MemberImpl());
}

/**
 * Return the name of this object
 * @return a unique name to the cluster
 */
public String getName() {
    return "tcp://" + getHostname() + ":" + getPort();
}

/**
 * Return the listen port of this member
 * @return - tcp listen port
 */
public int getPort() {
    return this.port;
}

/**
 * Return the TCP listen host for this member
 * @return IP address or host name
 */
public byte[] getHost() {
    return host;
}

```

```

}

public String getHostname() {
    if ( this.hostname != null ) return hostname;
    else {
        try {
            if (DO_DNS_LOOKUPS)
                this.hostname = java.net.InetAddress.getByAddress(host).getHostName();
            else
                this.hostname = org.apache.catalina.tribes.util.Arrays.toString(host);
            return this.hostname;
        } catch ( IOException x ) {
            throw new RuntimeException("Unable to parse hostname.",x);
        }
    }
}

/**
 * Contains information on how long this member has been online.
 * The result is the number of milli seconds this member has been
 * broadcasting its membership to the cluster.
 * @return nr of milliseconds since this member started.
 */
public long getMemberAliveTime() {
    return memberAliveTime;
}

public long getServiceStartTime() {
    return serviceStartTime;
}

public byte[] getUniqueId() {
    return uniqueId;
}

public byte[] getPayload() {
    return payload;
}

public byte[] getCommand() {
    return command;
}

public byte[] getDomain() {
    return domain;
}

public int getSecurePort() {

```

```

    return securePort;
}

public void setMemberAliveTime(long time) {
    memberAliveTime=time;
}

/**
 * String representation of this object
 */
public String toString() {
    StringBuffer buf = new StringBuffer("org.apache.catalina.tribes.membership.MemberImpl[");
    buf.append(getName()).append(",");
    buf.append(getHostname()).append(",");
    buf.append(port).append(", alive=");
    buf.append(memberAliveTime).append(",");
    buf.append("id=").append(bToS(this.uniqueId)).append(", ");
    buf.append("payload=").append(bToS(this.payload,8)).append(", ");
    buf.append("command=").append(bToS(this.command,8)).append(", ");
    buf.append("domain=").append(bToS(this.domain,8)).append(", ");
    buf.append("]");
    return buf.toString();
}

public static String bToS(byte[] data) {
    return bToS(data,data.length);
}

public static String bToS(byte[] data, int max) {
    StringBuffer buf = new StringBuffer(4*16);
    buf.append("{");
    for (int i=0; data!=null && i<data.length; i++) {
        buf.append(String.valueOf(data[i])).append(" ");
        if ( i==max ) {
            buf.append("...( "+data.length+" )");
            break;
        }
    }
    buf.append("}");
    return buf.toString();
}

/**
 * @see java.lang.Object#hashCode()
 * @return The hash code
 */
public int hashCode() {
    return getHost()[0]+getHost()[1]+getHost()[2]+getHost()[3];
}

```

```

}

/**
 * Returns true if the param o is a McastMember with the same name
 * @param o
 */
public boolean equals(Object o) {
    if ( o instanceof MemberImpl ) {
        return Arrays.equals(this.getHost(),((MemberImpl)o).getHost()) &&
            this.getPort() == ((MemberImpl)o).getPort() &&
            Arrays.equals(this.getUniqueId(),((MemberImpl)o).getUniqueId());
    }
    else
        return false;
}

public void setHost(byte[] host) {
    this.host = host;
}

public void setHostname(String host) throws IOException {
    hostname = host;
    this.host = java.net.InetAddress.getByName(host).getAddress();
}

public void setMsgCount(int msgCount) {
    this.msgCount = msgCount;
}

public void setPort(int port) {
    this.port = port;
    this.dataPkg = null;
}

public void setServiceStartTime(long serviceStartTime) {
    this.serviceStartTime = serviceStartTime;
}

public void setUniqueId(byte[] uniqueId) {
    this.uniqueId = uniqueId!=null?uniqueId:new byte[16];
    getData(true,true);
}

public void setPayload(byte[] payload) {
    byte[] oldpayload = this.payload;
    this.payload = payload!=null?payload:new byte[0];
    if ( this.getData(true,true).length > McastServiceImpl.MAX_PACKET_SIZE ) {
        this.payload = oldpayload;
    }
}

```

```

        throw new IllegalArgumentException("Payload is to large for tribes to handle.");
    }

}

public void setCommand(byte[] command) {
    this.command = command!=null?command:new byte[0];
    getData(true,true);
}

public void setDomain(byte[] domain) {
    this.domain = domain!=null?domain:new byte[0];
    getData(true,true);
}

public void setSecurePort(int securePort) {
    this.securePort = securePort;
}

public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
    int length = in.readInt();
    byte[] message = new byte[length];
    in.read(message);
    getMember(message,this);
}

}

public void writeExternal(ObjectOutput out) throws IOException {
    byte[] data = this.getData();
    out.writeInt(data.length);
    out.write(data);
}

}
/*
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 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
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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.apache.catalina.tribes.tipis;
```

```
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.io.Serializable;
import java.io.UnsupportedEncodingException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.Map;
import java.util.Set;
```

```
import org.apache.catalina.tribes.Channel;
import org.apache.catalina.tribes.ChannelException;
import org.apache.catalina.tribes.ChannelListener;
import org.apache.catalina.tribes.Heartbeat;
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.MembershipListener;
import org.apache.catalina.tribes.group.Response;
import org.apache.catalina.tribes.group.RpcCallback;
import org.apache.catalina.tribes.group.RpcChannel;
import org.apache.catalina.tribes.io.XByteBuffer;
import org.apache.catalina.tribes.membership.MemberImpl;
import org.apache.catalina.tribes.util.Arrays;
import org.apache.juli.logging.Log;
import org.apache.juli.logging.LogFactory;
import java.util.concurrent.ConcurrentHashMap;
```

```
/**
```

```
*
```

```
* @author Filip Hanik
```

```
* @version 1.0
```

```
*/
```

```
public abstract class AbstractReplicatedMap extends ConcurrentHashMap implements RpcCallback,
ChannelListener, MembershipListener, Heartbeat {
    protected static Log log = LogFactory.getLog(AbstractReplicatedMap.class);
```

```
/**
```

```
* The default initial capacity - MUST be a power of two.
```

```
*/
```

```
public static final int DEFAULT_INITIAL_CAPACITY = 16;
```

```

/**
 * The load factor used when none specified in constructor.
 */
public static final float DEFAULT_LOAD_FACTOR = 0.75f;

/**
 * Used to identify the map
 */
final String charset = "ISO-8859-1";

//-----
//      INSTANCE VARIABLES
//-----

protected abstract int getStateMessageType();

/**
 * Timeout for RPC messages, how long we will wait for a reply
 */
protected transient long rpcTimeout = 5000;
/**
 * Reference to the channel for sending messages
 */
protected transient Channel channel;
/**
 * The RpcChannel to send RPC messages through
 */
protected transient RpcChannel rpcChannel;
/**
 * The Map context name makes this map unique, this
 * allows us to have more than one map shared
 * through one channel
 */
protected transient byte[] mapContextName;
/**
 * Has the state been transferred
 */
protected transient boolean stateTransferred = false;
/**
 * Simple lock object for transfers
 */
protected transient Object stateMutex = new Object();
/**
 * A list of members in our map
 */
protected transient HashMap mapMembers = new HashMap();
/**

```



```

* Our default send options
*/
protected transient int channelSendOptions = Channel.SEND_OPTIONS_DEFAULT;
/**
* The owner of this map, ala a SessionManager for example
*/
protected transient MapOwner mapOwner;
/**
* External class loaders if serialization and deserialization is to be performed successfully.
*/
protected transient ClassLoader[] externalLoaders;

/**
* The node we are currently backing up data to, this index will rotate
* on a round robin basis
*/
protected transient int currentNode = 0;

/**
* Since the map keeps internal membership
* this is the timeout for a ping message to be responded to
* If a remote map doesn't respond within this timeframe,
* its considered dead.
*/
protected transient long accessTimeout = 5000;

/**
* Readable string of the mapContextName value
*/
protected transient String mapname = "";

//-----
//      map owner interface
//-----

public static interface MapOwner {
    public void objectMadePrimay(Object key, Object value);
}

//-----
//      CONSTRUCTORS
//-----

/**
* Creates a new map
* @param channel The channel to use for communication
* @param timeout long - timeout for RPC messages
* @param mapContextName String - unique name for this map, to allow multiple maps per channel

```

```

* @param initialCapacity int - the size of this map, see HashMap
* @param loadFactor float - load factor, see HashMap
* @param cls - a list of classloaders to be used for deserialization of objects.
*/
public AbstractReplicatedMap(MapOwner owner,
    Channel channel,
    long timeout,
    String mapContextName,
    int initialCapacity,
    float loadFactor,
    int channelSendOptions,
    ClassLoader[] cls) {
    super(initialCapacity, loadFactor, 15);
    init(owner, channel, mapContextName, timeout, channelSendOptions, cls);
}

/**
* Helper methods, wraps a single member in an array
* @param m Member
* @return Member[]
*/
protected Member[] wrap(Member m) {
    if ( m == null ) return new Member[0];
    else return new Member[] {m};
}

/**
* Initializes the map by creating the RPC channel, registering itself as a channel listener
* This method is also responsible for initiating the state transfer
* @param owner Object
* @param channel Channel
* @param mapContextName String
* @param timeout long
* @param channelSendOptions int
* @param cls ClassLoader[]
*/
protected void init(MapOwner owner, Channel channel, String mapContextName, long timeout, int
channelSendOptions, ClassLoader[] cls) {
    log.info("Initializing AbstractReplicatedMap with context name:"+mapContextName);
    this.mapOwner = owner;
    this.externalLoaders = cls;
    this.channelSendOptions = channelSendOptions;
    this.channel = channel;
    this.rpcTimeout = timeout;

    try {
        this.mapname = mapContextName;

```

```

        //unique context is more efficient if it is stored as bytes
        this.mapContextName = mapContextName.getBytes(chset);
    } catch (UnsupportedEncodingException x) {
        log.warn("Unable to encode mapContextName[" + mapContextName + "] using getBytes(" + chset + ") using
default getBytes()", x);
        this.mapContextName = mapContextName.getBytes();
    }
    if ( log.isTraceEnabled() ) log.trace("Created Lazy Map with name:"+mapContextName+",
bytes:"+Arrays.toString(this.mapContextName));

```

```

//create an rpc channel and add the map as a listener
this.rpcChannel = new RpcChannel(this.mapContextName, channel, this);
//add this map as a message listener
this.channel.addChannelListener(this);
//listen for membership notifications
this.channel.addMembershipListener(this);

```

```

try {
    //broadcast our map, this just notifies other members of our existence
    broadcast(MapMessage.MSG_INIT, true);
    //transfer state from another map
    transferState();
    //state is transferred, we are ready for messaging
    broadcast(MapMessage.MSG_START, true);
} catch (ChannelException x) {
    log.warn("Unable to send map start message.");
    throw new RuntimeException("Unable to start replicated map.",x);
}
}

```

```

/**
 * Sends a ping out to all the members in the cluster, not just map members
 * that this map is alive.
 * @param timeout long
 * @throws ChannelException
 */

```

```

protected void ping(long timeout) throws ChannelException {
    //send out a map membership message, only wait for the first reply
    MapMessage msg = new MapMessage(this.mapContextName,
        MapMessage.MSG_INIT,
        false,
        null,
        null,
        null,
        channel.getLocalMember(false),
        null);
}

```

```

if ( channel.getMembers().length > 0 ) {
    //send a ping, wait for all nodes to reply
    Response[] resp = rpcChannel.send(channel.getMembers(),
        msg, rpcChannel.ALL_REPLY,
        (channelSendOptions),
        (int) accessTimeout);
    for (int i = 0; i < resp.length; i++) {
        memberAlive(resp[i].getSource());
    } //for
}
//update our map of members, expire some if we didn't receive a ping back
synchronized (mapMembers) {
    Iterator it = mapMembers.entrySet().iterator();
    long now = System.currentTimeMillis();
    while ( it.hasNext() ) {
        Map.Entry entry = (Map.Entry)it.next();
        long access = ((Long)entry.getValue()).longValue();
        if ( (now - access) > timeout ) {
            it.remove();
            memberDisappeared( (Member) entry.getKey());
        }
    }
} //synch
}

/**
 * We have received a member alive notification
 * @param member Member
 */
protected void memberAlive(Member member) {
    synchronized (mapMembers) {
        if (!mapMembers.containsKey(member)) {
            mapMemberAdded(member);
        } //end if
        mapMembers.put(member, new Long(System.currentTimeMillis()));
    }
}

/**
 * Helper method to broadcast a message to all members in a channel
 * @param msgtype int
 * @param rpc boolean
 * @throws ChannelException
 */
protected void broadcast(int msgtype, boolean rpc) throws ChannelException {
    //send out a map membership message, only wait for the first reply
    MapMessage msg = new MapMessage(this.mapContextName, msgtype,
        false, null, null, null, channel.getLocalMember(false), null);
}

```

```

    if ( rpc ) {
        Response[] resp = rpcChannel.send(channel.getMembers(), msg, rpcChannel.FIRST_REPLY,
(channelSendOptions),rpcTimeout);
        for (int i = 0; i < resp.length; i++) {
            mapMemberAdded(resp[i].getSource());
            messageReceived(resp[i].getMessage(), resp[i].getSource());
        }
    } else {
        channel.send(channel.getMembers(),msg,channelSendOptions);
    }
}

public void breakdown() {
    finalize();
}

public void finalize() {
    try {broadcast(MapMessage.MSG_STOP,false); }catch ( Exception ignore){}
    //cleanup
    if (this.rpcChannel != null) {
        this.rpcChannel.breakdown();
    }
    if (this.channel != null) {
        this.channel.removeChannelListener(this);
        this.channel.removeMembershipListener(this);
    }
    this.rpcChannel = null;
    this.channel = null;
    this.mapMembers.clear();
    super.clear();
    this.stateTransferred = false;
    this.externalLoaders = null;
}

public int hashCode() {
    return Arrays.hashCode(this.mapContextName);
}

public boolean equals(Object o) {
    if ( o == null ) return false;
    if ( !(o instanceof AbstractReplicatedMap)) return false;
    if ( !(o.getClass().equals(this.getClass())) ) return false;
    AbstractReplicatedMap other = (AbstractReplicatedMap)o;
    return Arrays.equals(mapContextName,other.mapContextName);
}

//-----
//      GROUP COM INTERFACES

```

```
//-----
public Member[] getMapMembers(HashMap members) {
    synchronized (members) {
        Member[] result = new Member[members.size()];
        members.keySet().toArray(result);
        return result;
    }
}

public Member[] getMapMembers() {
    return getMapMembers(this.mapMembers);
}

public Member[] getMapMembersExcl(Member[] exclude) {
    synchronized (mapMembers) {
        HashMap list = (HashMap)mapMembers.clone();
        for (int i=0; i<exclude.length;i++) list.remove(exclude[i]);
        return getMapMembers(list);
    }
}

/**
 * Replicates any changes to the object since the last time
 * The object has to be primary, ie, if the object is a proxy or a backup, it will not be replicated<br>
 * @param complete - if set to true, the object is replicated to its backup
 * if set to false, only objects that implement ReplicatedMapEntry and the isDirty() returns true will
 * be replicated
 */
public void replicate(Object key, boolean complete) {
    if ( log.isTraceEnabled() )
        log.trace("Replicate invoked on key:"+key);
    MapEntry entry = (MapEntry)super.get(key);
    if ( entry == null ) return;
    if ( !entry.isSerializable() ) return;
    if (entry != null && entry.isPrimary() && entry.getBackupNodes() != null && entry.getBackupNodes().length
    > 0) {
        Object value = entry.getValue();
        //check to see if we need to replicate this object isDirty()||complete
        boolean repl = complete || ( (value instanceof ReplicatedMapEntry) && ( (ReplicatedMapEntry)
value).isDirty());

        if (!repl) {
            if ( log.isTraceEnabled() )
                log.trace("Not replicating:"+key+", no change made");

            return;
        }
        //check to see if the message is diffable

```

```

boolean diff = ( (value instanceof ReplicatedMapEntry) && ( (ReplicatedMapEntry) value).isDiffable());
MapMessage msg = null;
if (diff) {
    ReplicatedMapEntry reentry = (ReplicatedMapEntry)entry.getValue();
    try {
        reentry.lock();
        //construct a diff message
        msg = new MapMessage(mapContextName, MapMessage.MSG_BACKUP,
            true, (Serializable) entry.getKey(), null,
            reentry.getDiff(),
            entry.getPrimary(),
            entry.getBackupNodes());
    } catch (IOException x) {
        log.error("Unable to diff object. Will replicate the entire object instead.", x);
    } finally {
        reentry.unlock();
    }
}

if (msg == null) {
    //construct a complete
    msg = new MapMessage(mapContextName, MapMessage.MSG_BACKUP,
        false, (Serializable) entry.getKey(),
        (Serializable) entry.getValue(),
        null, entry.getPrimary(),entry.getBackupNodes());
}

try {
    if ( channel!=null && entry.getBackupNodes()!= null && entry.getBackupNodes().length > 0 ) {
        channel.send(entry.getBackupNodes(), msg, channelSendOptions);
    }
} catch (ChannelException x) {
    log.error("Unable to replicate data.", x);
}

} //end if

}

/**
 * This can be invoked by a periodic thread to replicate out any changes.
 * For maps that don't store objects that implement ReplicatedMapEntry, this
 * method should be used infrequently to avoid large amounts of data transfer
 * @param complete boolean
 */
public void replicate(boolean complete) {
    Iterator i = super.entrySet().iterator();
    while (i.hasNext()) {
        Map.Entry e = (Map.Entry) i.next();

```

```

        replicate(e.getKey(), complete);
    } //while

}

public void transferState() {
    try {
        Member[] members = getMapMembers();
        Member backup = members.length > 0 ? (Member) members[0] : null;
        if (backup != null) {
            MapMessage msg = new MapMessage(mapContextName, getStateMessageType(), false,
                null, null, null, null, null);
            Response[] resp = rpcChannel.send(new Member[] { backup }, msg, rpcChannel.FIRST_REPLY,
channelSendOptions, rpcTimeout);
            if (resp.length > 0) {
                synchronized (stateMutex) {
                    msg = (MapMessage) resp[0].getMessage();
                    msg.deserialize(getExternalLoaders());
                    ArrayList list = (ArrayList) msg.getValue();
                    for (int i = 0; i < list.size(); i++) {
                        messageReceived( (Serializable) list.get(i), resp[0].getSource());
                    } //for
                }
            } else {
                log.warn("Transfer state, 0 replies, probably a timeout.");
            }
        }
    } catch (ChannelException x) {
        log.error("Unable to transfer LazyReplicatedMap state.", x);
    } catch (IOException x) {
        log.error("Unable to transfer LazyReplicatedMap state.", x);
    } catch (ClassNotFoundException x) {
        log.error("Unable to transfer LazyReplicatedMap state.", x);
    }
    stateTransferred = true;
}

/**
 * @todo implement state transfer
 * @param msg Serializable
 * @return Serializable - null if no reply should be sent
 */
public Serializable replyRequest(Serializable msg, final Member sender) {
    if (! (msg instanceof MapMessage)) return null;
    MapMessage mapmsg = (MapMessage) msg;

    //map init request
    if (mapmsg.getMsgType() == mapmsg.MSG_INIT) {

```



```

        mapmsg.setPrimary(channel.getLocalMember(false));
        return mapmsg;
    }

    //map start request
    if (mapmsg.getMsgType() == mapmsg.MSG_START) {
        mapmsg.setPrimary(channel.getLocalMember(false));
        mapMemberAdded(sender);
        return mapmsg;
    }

    //backup request
    if (mapmsg.getMsgType() == mapmsg.MSG_RETRIEVE_BACKUP) {
        MapEntry entry = (MapEntry)super.get(mapmsg.getKey());
        if (entry == null || (!entry.isSerializable()) )return null;
        mapmsg.setValue( (Serializable) entry.getValue());
        return mapmsg;
    }

    //state transfer request
    if (mapmsg.getMsgType() == mapmsg.MSG_STATE || mapmsg.getMsgType() ==
mapmsg.MSG_STATE_COPY) {
        synchronized (stateMutex) { //make sure we dont do two things at the same time
            ArrayList list = new ArrayList();
            Iterator i = super.entrySet().iterator();
            while (i.hasNext()) {
                Map.Entry e = (Map.Entry) i.next();
                MapEntry entry = (MapEntry) super.get(e.getKey());
                if ( entry != null && entry.isSerializable() ) {
                    boolean copy = (mapmsg.getMsgType() == mapmsg.MSG_STATE_COPY);
                    MapMessage me = new MapMessage(mapContextName,
                        copy?MapMessage.MSG_COPY:MapMessage.MSG_PROXY,
                        false, (Serializable) entry.getKey(), copy?(Serializable) entry.getValue():null, null,
entry.getPrimary(),entry.getBackupNodes());
                        list.add(me);
                    }
                }
            mapmsg.setValue(list);
            return mapmsg;

        } //synchronized
    }

    return null;

}

/**

```

```

* If the reply has already been sent to the requesting thread,
* the rpc callback can handle any data that comes in after the fact.
* @param msg Serializable
* @param sender Member
*/
public void leftOver(Serializable msg, Member sender) {
    //left over membership messages
    if (! (msg instanceof MapMessage))return;

    MapMessage mapmsg = (MapMessage) msg;
    try {
        mapmsg.deserialize(getExternalLoaders());
        if (mapmsg.getMsgType() == MapMessage.MSG_START) {
            mapMemberAdded(mapmsg.getPrimary());
        } else if (mapmsg.getMsgType() == MapMessage.MSG_INIT) {
            memberAlive(mapmsg.getPrimary());
        }
    } catch (IOException x ) {
        log.error("Unable to deserialize MapMessage.",x);
    } catch (ClassNotFoundException x ) {
        log.error("Unable to deserialize MapMessage.",x);
    }
}

public void messageReceived(Serializable msg, Member sender) {
    if (! (msg instanceof MapMessage)) return;

    MapMessage mapmsg = (MapMessage) msg;
    if ( log.isTraceEnabled() ) {
        log.trace("Map["+mapname+"] received message:"+mapmsg);
    }

    try {
        mapmsg.deserialize(getExternalLoaders());
    } catch (IOException x) {
        log.error("Unable to deserialize MapMessage.", x);
        return;
    } catch (ClassNotFoundException x) {
        log.error("Unable to deserialize MapMessage.", x);
        return;
    }
    if ( log.isTraceEnabled() )
        log.trace("Map message received from:"+sender.getName()+" msg:"+mapmsg);
    if (mapmsg.getMsgType() == MapMessage.MSG_START) {
        mapMemberAdded(mapmsg.getPrimary());
    }

    if (mapmsg.getMsgType() == MapMessage.MSG_STOP) {

```

```

        memberDisappeared(mapmsg.getPrimary());
    }

    if (mapmsg.getMsgType() == MapMessage.MSG_PROXY) {
        MapEntry entry = (MapEntry)super.get(mapmsg.getKey());
        if ( entry==null ) {
            entry = new MapEntry(mapmsg.getKey(), mapmsg.getValue());
            entry.setBackup(false);
            entry.setProxy(true);
            entry.setBackupNodes(mapmsg.getBackupNodes());
            entry.setPrimary(mapmsg.getPrimary());
            super.put(entry.getKey(), entry);
        } else {
            entry.setProxy(true);
            entry.setBackup(false);
            entry.setBackupNodes(mapmsg.getBackupNodes());
            entry.setPrimary(mapmsg.getPrimary());
        }
    }

    if (mapmsg.getMsgType() == MapMessage.MSG_REMOVE) {
        super.remove(mapmsg.getKey());
    }

    if (mapmsg.getMsgType() == MapMessage.MSG_BACKUP || mapmsg.getMsgType() ==
    MapMessage.MSG_COPY) {
        MapEntry entry = (MapEntry)super.get(mapmsg.getKey());
        if (entry == null) {
            entry = new MapEntry(mapmsg.getKey(), mapmsg.getValue());
            entry.setBackup(mapmsg.getMsgType() == MapMessage.MSG_BACKUP);
            entry.setProxy(false);
            entry.setBackupNodes(mapmsg.getBackupNodes());
            entry.setPrimary(mapmsg.getPrimary());
            if (mapmsg.getValue()!=null && mapmsg.getValue() instanceof ReplicatedMapEntry ) {
                ((ReplicatedMapEntry)mapmsg.getValue()).setOwner(getMapOwner());
            }
        } else {
            entry.setBackup(mapmsg.getMsgType() == MapMessage.MSG_BACKUP);
            entry.setProxy(false);
            entry.setBackupNodes(mapmsg.getBackupNodes());
            entry.setPrimary(mapmsg.getPrimary());
            if (entry.getValue() instanceof ReplicatedMapEntry) {
                ReplicatedMapEntry diff = (ReplicatedMapEntry) entry.getValue();
                if (mapmsg.isDiff()) {
                    try {
                        diff.lock();
                        diff.applyDiff(mapmsg.getDiffValue(), 0, mapmsg.getDiffValue().length);
                    } catch (Exception x) {

```

```

        log.error("Unable to apply diff to key:" + entry.getKey(), x);
    } finally {
        diff.unlock();
    }
} else {
    if ( mapmsg.getValue()!=null ) entry.setValue(mapmsg.getValue());
    ((ReplicatedMapEntry)entry.getValue()).setOwner(getMapOwner());
} //end if
} else if ( mapmsg.getValue() instanceof ReplicatedMapEntry ) {
    ReplicatedMapEntry re = (ReplicatedMapEntry)mapmsg.getValue();
    re.setOwner(getMapOwner());
    entry.setValue(re);
} else {
    if ( mapmsg.getValue()!=null ) entry.setValue(mapmsg.getValue());
} //end if
} //end if
super.put(entry.getKey(), entry);
} //end if
}

public boolean accept(Serializable msg, Member sender) {
    boolean result = false;
    if (msg instanceof MapMessage) {
        if ( log.isTraceEnabled() ) log.trace("Map["+mapname+"] accepting..." +msg);
        result = Arrays.equals(mapContextName, ( (MapMessage) msg).getMapId());
        if ( log.isTraceEnabled() ) log.trace("Msg["+mapname+"] accepted["+result+"]..." +msg);
    }
    return result;
}

public void mapMemberAdded(Member member) {
    if ( member.equals(getChannel().getLocalMember(false)) ) return;
    boolean memberAdded = false;
    //select a backup node if we don't have one
    synchronized (mapMembers) {
        if (!mapMembers.containsKey(member) ) {
            mapMembers.put(member, new Long(System.currentTimeMillis()));
            memberAdded = true;
        }
    }
    if ( memberAdded ) {
        synchronized (stateMutex) {
            Iterator i = super.entrySet().iterator();
            while (i.hasNext()) {
                Map.Entry e = (Map.Entry) i.next();
                MapEntry entry = (MapEntry) super.get(e.getKey());
                if ( entry == null ) continue;
                if (entry.isPrimary() && (entry.getBackupNodes() == null || entry.getBackupNodes().length == 0)) {

```

```

        try {
            Member[] backup = publishEntryInfo(entry.getKey(), entry.getValue());
            entry.setBackupNodes(backup);
            entry.setPrimary(channel.getLocalMember(false));
        } catch (ChannelException x) {
            log.error("Unable to select backup node.", x);
        } //catch
    } //end if
} //while
} //synchronized
} //end if
}

public boolean inSet(Member m, Member[] set) {
    if ( set == null ) return false;
    boolean result = false;
    for (int i=0; i<set.length && (!result); i++ )
        if ( m.equals(set[i]) ) result = true;
    return result;
}

public Member[] excludeFromSet(Member[] mbrs, Member[] set) {
    ArrayList result = new ArrayList();
    for (int i=0; i<set.length; i++ ) {
        boolean include = true;
        for (int j=0; j<mbrs.length; j++ )
            if ( mbrs[j].equals(set[i]) ) include = false;
        if ( include ) result.add(set[i]);
    }
    return (Member[])result.toArray(new Member[result.size()]);
}

public void memberAdded(Member member) {
    //do nothing
}

public void memberDisappeared(Member member) {
    boolean removed = false;
    synchronized (mapMembers) {
        removed = (mapMembers.remove(member) != null );
        if (!removed) {
            if (log.isDebugEnabled()) log.debug("Member["+member+"] disappeared, but was not present in the
map.");
            return; //the member was not part of our map.
        }
    }
}

Iterator i = super.entrySet().iterator();

```

```

while (i.hasNext()) {
    Map.Entry e = (Map.Entry) i.next();
    MapEntry entry = (MapEntry) super.get(e.getKey());
    if (entry==null) continue;
    if (entry.isPrimary() && inSet(member,entry.getBackupNodes())) {
        if (log.isDebugEnabled()) log.debug("[1] Primary choosing a new backup");
        try {
            Member[] backup = publishEntryInfo(entry.getKey(), entry.getValue());
            entry.setBackupNodes(backup);
            entry.setPrimary(channel.getLocalMember(false));
        } catch (ChannelException x) {
            log.error("Unable to relocate[" + entry.getKey() + "] to a new backup node", x);
        }
    } else if (member.equals(entry.getPrimary())) {
        if (log.isDebugEnabled()) log.debug("[2] Primary disappeared");
        entry.setPrimary(null);
    } //end if

    if ( entry.isProxy() &&
        entry.getPrimary() == null &&
        entry.getBackupNodes()!=null &&
        entry.getBackupNodes().length == 1 &&
        entry.getBackupNodes()[0].equals(member) ) {
        //remove proxies that have no backup nor primaries
        if (log.isDebugEnabled()) log.debug("[3] Removing orphaned proxy");
        i.remove();
    } else if ( entry.getPrimary() == null &&
        entry.isBackup() &&
        entry.getBackupNodes()!=null &&
        entry.getBackupNodes().length == 1 &&
        entry.getBackupNodes()[0].equals(channel.getLocalMember(false)) ) {
        try {
            if (log.isDebugEnabled()) log.debug("[4] Backup becoming primary");
            entry.setPrimary(channel.getLocalMember(false));
            entry.setBackup(false);
            entry.setProxy(false);
            Member[] backup = publishEntryInfo(entry.getKey(), entry.getValue());
            entry.setBackupNodes(backup);
            if ( mapOwner!=null ) mapOwner.objectMadePrimay(entry.getKey(),entry.getValue());

        } catch (ChannelException x) {
            log.error("Unable to relocate[" + entry.getKey() + "] to a new backup node", x);
        }
    }
} //while
}

```

```

public int getNextBackupIndex() {
    int size = mapMembers.size();
    if (mapMembers.size() == 0) return -1;
    int node = currentNode++;
    if (node >= size) {
        node = 0;
        currentNode = 0;
    }
    return node;
}
public Member getNextBackupNode() {
    Member[] members = getMapMembers();
    int node = getNextBackupIndex();
    if ( members.length == 0 || node == -1) return null;
    if ( node >= members.length ) node = 0;
    return members[node];
}

```

protected abstract Member[] publishEntryInfo(Object key, Object value) throws ChannelException;

```

public void heartbeat() {
    try {
        ping(accessTimeout);
    } catch ( Exception x ) {
        log.error("Unable to send AbstractReplicatedMap.ping message", x);
    }
}

```

```

//-----
//      METHODS TO OVERRIDE
//-----

```

```

/**
 * Removes an object from this map, it will also remove it from
 *
 * @param key Object
 * @return Object
 */
public Object remove(Object key) {
    return remove(key, true);
}
public Object remove(Object key, boolean notify) {
    MapEntry entry = (MapEntry)super.remove(key);

    try {
        if (getMapMembers().length > 0 && notify) {
            MapMessage msg = new MapMessage(getMapContextName(), MapMessage.MSG_REMOVE, false,
            (Serializable) key, null, null, null, null);

```

```

        getChannel().send(getMapMembers(), msg, getChannelSendOptions());
    }
} catch ( ChannelException x ) {
    log.error("Unable to replicate out data for a LazyReplicatedMap.remove operation",x);
}
return entry!=null?entry.getValue():null;
}

public MapEntry getInternal(Object key) {
    return (MapEntry)super.get(key);
}

public Object get(Object key) {
    MapEntry entry = (MapEntry)super.get(key);
    if (log.isTraceEnabled()) log.trace("Requesting id:"+key+" entry:"+entry);
    if ( entry == null ) return null;
    if ( !entry.isPrimary() ) {
        //if the message is not primary, we need to retrieve the latest value
        try {
            Member[] backup = null;
            MapMessage msg = null;
            if ( !entry.isBackup() ) {
                //make sure we don't retrieve from ourselves
                msg = new MapMessage(getMapContextName(), MapMessage.MSG_RETRIEVE_BACKUP, false,
                    (Serializable) key, null, null, null,null);
                Response[] resp = getRpcChannel().send(entry.getBackupNodes(),msg,
this.getRpcChannel().FIRST_REPLY, Channel.SEND_OPTIONS_DEFAULT, getRpcTimeout());
                if (resp == null || resp.length == 0) {
                    //no responses
                    log.warn("Unable to retrieve remote object for key:" + key);
                    return null;
                }
                msg = (MapMessage) resp[0].getMessage();
                msg.deserialize(getExternalLoaders());
                backup = entry.getBackupNodes();
                if ( entry.getValue() instanceof ReplicatedMapEntry ) {
                    ReplicatedMapEntry val = (ReplicatedMapEntry)entry.getValue();
                    val.setOwner(getMapOwner());
                }
                if ( msg.getValue()!=null ) entry.setValue(msg.getValue());
            }
            if (entry.isBackup()) {
                //select a new backup node
                backup = publishEntryInfo(key, entry.getValue());
            } else if ( entry.isProxy() ) {
                //invalidate the previous primary
                msg = new
MapMessage(getMapContextName(),MapMessage.MSG_PROXY,false,(Serializable)key,null,null,channel.getLocal

```



```

Member(false),backup);
    Member[] dest = getMapMembersExcl(backup);
    if ( dest!=null && dest.length >0) {
        getChannel().send(dest, msg, getChannelSendOptions());
    }
}
entry.setPrimary(channel.getLocalMember(false));
entry.setBackupNodes(backup);
entry.setBackup(false);
entry.setProxy(false);

} catch (Exception x) {
    log.error("Unable to replicate out data for a LazyReplicatedMap.get operation", x);
    return null;
}
}
if (log.isTraceEnabled()) log.trace("Requesting id:"+key+" result:"+entry.getValue());
if ( entry.getValue() != null && entry.getValue() instanceof ReplicatedMapEntry ) {
    ReplicatedMapEntry val = (ReplicatedMapEntry)entry.getValue();
    //hack, somehow this is not being set above
    val.setOwner(getMapOwner());

}
return entry.getValue();
}

protected void printMap(String header) {
    try {
        System.out.println("\nDEBUG MAP:"+header);
        System.out.println("Map["+ new String(mapContextName, charset) + ", Map Size:" + super.size());
        Member[] mbrs = getMapMembers();
        for ( int i=0; i<mbrs.length;i++ ) {
            System.out.println("Mbr["+(i+1)+"="+mbrs[i].getName());
        }
        Iterator i = super.entrySet().iterator();
        int cnt = 0;

        while (i.hasNext()) {
            Map.Entry e = (Map.Entry) i.next();
            System.out.println( (++cnt) + ". " + super.get(e.getKey()));
        }
        System.out.println("EndMap]\n\n");
    } catch ( Exception ignore) {
        ignore.printStackTrace();
    }
}
}

```

```

/**
 * Returns true if the key has an entry in the map.
 * The entry can be a proxy or a backup entry, invoking <code>get(key)</code>
 * will make this entry primary for the group
 * @param key Object
 * @return boolean
 */
public boolean containsKey(Object key) {
    return super.containsKey(key);
}

public Object put(Object key, Object value) {
    return put(key,value,true);
}

public Object put(Object key, Object value, boolean notify) {
    MapEntry entry = new MapEntry(key,value);
    entry.setBackup(false);
    entry.setProxy(false);
    entry.setPrimary(channel.getLocalMember(false));

    Object old = null;

    //make sure that any old values get removed
    if ( containsKey(key) ) old = remove(key);
    try {
        if ( notify ) {
            Member[] backup = publishEntryInfo(key, value);
            entry.setBackupNodes(backup);
        }
    } catch (ChannelException x) {
        log.error("Unable to replicate out data for a LazyReplicatedMap.put operation", x);
    }
    super.put(key,entry);
    return old;
}

/**
 * Copies all values from one map to this instance
 * @param m Map
 */
public void putAll(Map m) {
    Iterator i = m.entrySet().iterator();
    while ( i.hasNext() ) {
        Map.Entry entry = (Map.Entry)i.next();
        put(entry.getKey(),entry.getValue());
    }
}

```

```

    }
}

public void clear() {
    clear(true);
}

public void clear(boolean notify) {
    if ( notify ) {
        //only delete active keys
        Iterator keys = keySet().iterator();
        while (keys.hasNext())
            remove(keys.next());
    } else {
        super.clear();
    }
}

public boolean containsValue(Object value) {
    if ( value == null ) {
        return super.containsValue(value);
    } else {
        Iterator i = super.entrySet().iterator();
        while (i.hasNext()) {
            Map.Entry e = (Map.Entry) i.next();
            MapEntry entry = (MapEntry) super.get(e.getKey());
            if (entry!=null && entry.isPrimary() && value.equals(entry.getValue())) return true;
        }//while
        return false;
    }//end if
}

public Object clone() {
    throw new UnsupportedOperationException("This operation is not valid on a replicated map");
}

/**
 * Returns the entire contents of the map
 * Map.Entry.getValue() will return a LazyReplicatedMap.MapEntry object containing all the information
 * about the object.
 * @return Set
 */
public Set entrySetFull() {
    return super.entrySet();
}

public Set keySetFull() {
    return super.keySet();
}

```

```

    }

    public int sizeFull() {
        return super.size();
    }

    public Set entrySet() {
        LinkedHashSet set = new LinkedHashSet(super.size());
        Iterator i = super.entrySet().iterator();
        while ( i.hasNext() ) {
            Map.Entry e = (Map.Entry)i.next();
            Object key = e.getKey();
            MapEntry entry = (MapEntry)super.get(key);
            if ( entry != null && entry.isPrimary() ) set.add(entry.getValue());
        }
        return Collections.unmodifiableSet(set);
    }

    public Set keySet() {
        //todo implement
        //should only return keys where this is active.
        LinkedHashSet set = new LinkedHashSet(super.size());
        Iterator i = super.entrySet().iterator();
        while ( i.hasNext() ) {
            Map.Entry e = (Map.Entry)i.next();
            Object key = e.getKey();
            MapEntry entry = (MapEntry)super.get(key);
            if ( entry!=null && entry.isPrimary() ) set.add(key);
        }
        return Collections.unmodifiableSet(set);
    }

    public int size() {
        //todo, implement a counter variable instead
        //only count active members in this node
        int counter = 0;
        Iterator it = super.entrySet().iterator();
        while (it!=null && it.hasNext() ) {
            Map.Entry e = (Map.Entry) it.next();
            if ( e != null ) {
                MapEntry entry = (MapEntry) super.get(e.getKey());
                if (entry!=null && entry.isPrimary() && entry.getValue() != null) counter++;
            }
        }
        return counter;
    }
}

```

```

protected boolean removeEldestEntry(Map.Entry eldest) {
    return false;
}

public boolean isEmpty() {
    return size()==0;
}

public Collection values() {
    ArrayList values = new ArrayList();
    Iterator i = super.entrySet().iterator();
    while ( i.hasNext() ) {
        Map.Entry e = (Map.Entry)i.next();
        MapEntry entry = (MapEntry)super.get(e.getKey());
        if (entry!=null && entry.isPrimary() && entry.getValue()!=null) values.add(entry.getValue());
    }
    return Collections.unmodifiableCollection(values);
}

```

```

//-----
//      Map Entry class
//-----

```

```

public static class MapEntry implements Map.Entry {
    private boolean backup;
    private boolean proxy;
    private Member[] backupNodes;
    private Member primary;
    private Object key;
    private Object value;

    public MapEntry(Object key, Object value) {
        setKey(key);
        setValue(value);
    }

    public boolean isKeySerializable() {
        return (key == null) || (key instanceof Serializable);
    }

    public boolean isValueSerializable() {
        return (value==null) || (value instanceof Serializable);
    }

    public boolean isSerializable() {
        return isKeySerializable() && isValueSerializable();
    }
}

```

```

}

public boolean isBackup() {
    return backup;
}

public void setBackup(boolean backup) {
    this.backup = backup;
}

public boolean isProxy() {
    return proxy;
}

public boolean isPrimary() {
    return ( (!proxy) && (!backup));
}

public void setProxy(boolean proxy) {
    this.proxy = proxy;
}

public boolean isDiffable() {
    return (value instanceof ReplicatedMapEntry) &&
        ((ReplicatedMapEntry)value).isDiffable();
}

public void setBackupNodes(Member[] nodes) {
    this.backupNodes = nodes;
}

public Member[] getBackupNodes() {
    return backupNodes;
}

public void setPrimary(Member m) {
    primary = m;
}

public Member getPrimary() {
    return primary;
}

public Object getValue() {
    return value;
}

public Object setValue(Object value) {

```

```

    Object old = this.value;
    this.value = value;
    return old;
}

public Object getKey() {
    return key;
}

public Object setKey(Object key) {
    Object old = this.key;
    this.key = key;
    return old;
}

public int hashCode() {
    return key.hashCode();
}

public boolean equals(Object o) {
    return key.equals(o);
}

/**
 * apply a diff, or an entire object
 * @param data byte[]
 * @param offset int
 * @param length int
 * @param diff boolean
 * @throws IOException
 * @throws ClassNotFoundException
 */
public void apply(byte[] data, int offset, int length, boolean diff) throws IOException, ClassNotFoundException
{
    if (isDiffable() && diff) {
        ReplicatedMapEntry reentry = (ReplicatedMapEntry) value;
        try {
            reentry.lock();
            reentry.applyDiff(data, offset, length);
        } finally {
            reentry.unlock();
        }
    } else if (length == 0) {
        value = null;
        proxy = true;
    } else {
        value = XByteBuffer.deserialize(data, offset, length);
    }
}

```

```

    }

    public String toString() {
        StringBuffer buf = new StringBuffer("MapEntry[key:");
        buf.append(getKey()).append("; ");
        buf.append("value:").append(getValue()).append("; ");
        buf.append("primary:").append(isPrimary()).append("; ");
        buf.append("backup:").append(isBackup()).append("; ");
        buf.append("proxy:").append(isProxy()).append(";]");
        return buf.toString();
    }

}

//-----
//      map message to send to and from other maps
//-----

public static class MapMessage implements Serializable {
    public static final int MSG_BACKUP = 1;
    public static final int MSG_RETRIEVE_BACKUP = 2;
    public static final int MSG_PROXY = 3;
    public static final int MSG_REMOVE = 4;
    public static final int MSG_STATE = 5;
    public static final int MSG_START = 6;
    public static final int MSG_STOP = 7;
    public static final int MSG_INIT = 8;
    public static final int MSG_COPY = 9;
    public static final int MSG_STATE_COPY = 10;

    private byte[] mapId;
    private int msgtype;
    private boolean diff;
    private transient Serializable key;
    private transient Serializable value;
    private byte[] valuedata;
    private byte[] keydata;
    private byte[] diffvalue;
    private Member[] nodes;
    private Member primary;

    public String toString() {
        StringBuffer buf = new StringBuffer("MapMessage[context=");
        buf.append(new String(mapId));
        buf.append("; type=");
        buf.append(getTypeDesc());
        buf.append("; key=");
        buf.append(key);
    }
}

```



```

        buf.append("; value=");
        buf.append(value);
        return buf.toString();
    }

    public String getTypeDesc() {
        switch (msgtype) {
            case MSG_BACKUP: return "MSG_BACKUP";
            case MSG_RETRIEVE_BACKUP: return "MSG_RETRIEVE_BACKUP";
            case MSG_PROXY: return "MSG_PROXY";
            case MSG_REMOVE: return "MSG_REMOVE";
            case MSG_STATE: return "MSG_STATE";
            case MSG_START: return "MSG_START";
            case MSG_STOP: return "MSG_STOP";
            case MSG_INIT: return "MSG_INIT";
            case MSG_STATE_COPY: return "MSG_STATE_COPY";
            case MSG_COPY: return "MSG_COPY";
            default : return "UNKNOWN";
        }
    }
}

public MapMessage() {}

public MapMessage(byte[] mapId,int msgtype, boolean diff,
    Serializable key, Serializable value,
    byte[] diffvalue, Member primary, Member[] nodes) {
    this.mapId = mapId;
    this.msgtype = msgtype;
    this.diff = diff;
    this.key = key;
    this.value = value;
    this.diffvalue = diffvalue;
    this.nodes = nodes;
    this.primary = primary;
    setValue(value);
    setKey(key);
}

public void deserialize(ClassLoader[] cls) throws IOException, ClassNotFoundException {
    key(cls);
    value(cls);
}

public int getMsgType() {
    return msgtype;
}

public boolean isDiff() {

```

```

        return diff;
    }

    public Serializable getKey() {
        try {
            return key(null);
        } catch ( Exception x ) {
            log.error("Deserialization error of the MapMessage.key",x);
            return null;
        }
    }

    public Serializable key(ClassLoader[] cls) throws IOException, ClassNotFoundException {
        if ( key!=null ) return key;
        if ( keydata == null || keydata.length == 0 ) return null;
        key = XByteBuffer.deserialize(keydata,0,keydata.length,cls);
        keydata = null;
        return key;
    }

    public byte[] getKeyData() {
        return keydata;
    }

    public Serializable getValue() {
        try {
            return value(null);
        } catch ( Exception x ) {
            log.error("Deserialization error of the MapMessage.value",x);
            return null;
        }
    }

    public Serializable value(ClassLoader[] cls) throws IOException, ClassNotFoundException {
        if ( value!=null ) return value;
        if ( valuedata == null || valuedata.length == 0 ) return null;
        value = XByteBuffer.deserialize(valuedata,0,valuedata.length,cls);
        valuedata = null;;
        return value;
    }

    public byte[] getValueData() {
        return valuedata;
    }

    public byte[] getDiffValue() {
        return diffvalue;
    }

```

```

public Member[] getBackupNodes() {
    return nodes;
}

private void setBackUpNodes(Member[] nodes) {
    this.nodes = nodes;
}

public Member getPrimary() {
    return primary;
}

private void setPrimary(Member m) {
    primary = m;
}

public byte[] getMapId() {
    return mapId;
}

public void setValue(Serializable value) {
    try {
        if ( value != null ) valuedata = XByteBuffer.serialize(value);
        this.value = value;
    } catch ( IOException x ) {
        throw new RuntimeException(x);
    }
}

public void setKey(Serializable key) {
    try {
        if (key != null) keydata = XByteBuffer.serialize(key);
        this.key = key;
    } catch (IOException x) {
        throw new RuntimeException(x);
    }
}

protected Member[] readMembers(ObjectInput in) throws IOException, ClassNotFoundException {
    int nodecount = in.readInt();
    Member[] members = new Member[nodecount];
    for ( int i=0; i<members.length; i++ ) {
        byte[] d = new byte[in.readInt()];
        in.read(d);
        if (d.length > 0) members[i] = MemberImpl.getMember(d);
    }
    return members;
}

```

```

    }

    protected void writeMembers(ObjectOutput out,Member[] members) throws IOException {
        if ( members == null ) members = new Member[0];
        out.writeInt(members.length);
        for (int i=0; i<members.length; i++ ) {
            if ( members[i] != null ) {
                byte[] d = members[i] != null ? ( (MemberImpl)members[i]).getData(false) : new byte[0];
                out.writeInt(d.length);
                out.write(d);
            }
        }
    }

    /**
     * shallow clone
     * @return Object
     */
    public Object clone() {
        MapMessage msg = new MapMessage(this.mapId, this.msgtype, this.diff, this.key, this.value, this.diffvalue,
this.primary, this.nodes);
        msg.keydata = this.keydata;
        msg.valuedata = this.valuedata;
        return msg;
    }
} //MapMessage

public Channel getChannel() {
    return channel;
}

public byte[] getMapContextName() {
    return mapContextName;
}

public RpcChannel getRpcChannel() {
    return rpcChannel;
}

public long getRpcTimeout() {
    return rpcTimeout;
}

public Object getStateMutex() {
    return stateMutex;
}

```

```

public boolean isStateTransferred() {
    return stateTransferred;
}

public MapOwner getMapOwner() {
    return mapOwner;
}

public ClassLoader[] getExternalLoaders() {
    return externalLoaders;
}

public int getChannelSendOptions() {
    return channelSendOptions;
}

public long getAccessTimeout() {
    return accessTimeout;
}

public void setMapOwner(MapOwner mapOwner) {
    this.mapOwner = mapOwner;
}

public void setExternalLoaders(ClassLoader[] externalLoaders) {
    this.externalLoaders = externalLoaders;
}

public void setChannelSendOptions(int channelSendOptions) {
    this.channelSendOptions = channelSendOptions;
}

public void setAccessTimeout(long accessTimeout) {
    this.accessTimeout = accessTimeout;
}
}
/*
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 * contributor license agreements. See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
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 * the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 */

```

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\*/

```
package org.apache.catalina.tribes.tipis;
```

```
import java.io.Serializable;
```

```
import org.apache.catalina.tribes.Channel;
```

```
import org.apache.catalina.tribes.ChannelException;
```

```
import org.apache.catalina.tribes.ChannelListener;
```

```
import org.apache.catalina.tribes.Member;
```

```
import org.apache.catalina.tribes.MembershipListener;
```

```
import org.apache.catalina.tribes.group.RpcCallback;
```

```
import org.apache.catalina.tribes.util.Arrays;
```

```
import org.apache.catalina.tribes.UniqueId;
```

```
import org.apache.catalina.tribes.tipis.AbstractReplicatedMap.MapOwner;
```

```
/**
```

- \* A smart implementation of a stateful replicated map. uses primary/secondary backup strategy.
- \* One node is always the primary and one node is always the backup.
- \* This map is synchronized across a cluster, and only has one backup member.<br/>
- \* A perfect usage for this map would be a session map for a session manager in a clustered environment.<br/>
- \* The only way to modify this list is to use the <code>put, putAll, remove</code> methods.
- \* <code>entrySet, entrySetFull, keySet, keySetFull</code>, returns all non modifiable sets.<br/><br/>
- \* If objects (values) in the map change without invoking <code>put()</code> or <code>remove()</code>
- \* the data can be distributed using two different methods:<br/>
- \* <code>replicate(boolean)</code> and <code>replicate(Object, boolean)</code><br/>
- \* These two methods are very important two understand. The map can work with two set of value objects:<br/>
- \* 1. Serializable - the entire object gets serialized each time it is replicated<br/>
- \* 2. ReplicatedMapEntry - this interface allows for a isDirty() flag and to replicate diffs if desired.<br/>
- \* Implementing the <code>ReplicatedMapEntry</code> interface allows you to decide what objects
- \* get replicated and how much data gets replicated each time.<br/>
- \* If you implement a smart AOP mechanism to detect changes in underlying objects, you can replicate
- \* only those changes by implementing the ReplicatedMapEntry interface, and return true when isDiffable()
- \* is invoked.<br/><br/>
- \*
- \* This map implementation doesn't have a background thread running to replicate changes.
- \* If you do have changes without invoking put/remove then you need to invoke one of the following methods:
- \* <ul>
- \* <li><code>replicate(Object,boolean)</code> - replicates only the object that belongs to the key</li>
- \* <li><code>replicate(boolean)</code> - Scans the entire map for changes and replicates data</li>
- \* </ul>
- \* the <code>boolean</code> value in the <code>replicate</code> method used to decide
- \* whether to only replicate objects that implement the <code>ReplicatedMapEntry</code> interface
- \* or to replicate all objects. If an object doesn't implement the <code>ReplicatedMapEntry</code> interface

```

* each time the object gets replicated the entire object gets serialized, hence a call to <code>replicate(true)</code>
* will replicate all objects in this map that are using this node as primary.
*
* <br><br><b>REMEMBER TO CALL <code>breakdown()</code> or <code>finalize()</code> when you are done
with the map to
* avoid memory leaks.<br><br>
* @todo implement periodic sync/transfer thread
* @author Filip Hanik
* @version 1.0
*/

```

```

public class LazyReplicatedMap extends AbstractReplicatedMap
    implements RpcCallback, ChannelListener, MembershipListener {
    protected static org.apache.juli.logging.Log log =
org.apache.juli.logging.LogFactory.getLog(LazyReplicatedMap.class);

```

```

//-----
//      CONSTRUCTORS / DESTRUCTORS
//-----
/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 * @param loadFactor float - load factor, see HashMap
 */
    public LazyReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity, float loadFactor, ClassLoader[] cls) {
        super(owner,channel,timeout,mapContextName,initialCapacity,loadFactor,
Channel.SEND_OPTIONS_DEFAULT,cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messages
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 */
    public LazyReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity, ClassLoader[] cls) {
        super(owner, channel,timeout,mapContextName,initialCapacity,
LazyReplicatedMap.DEFAULT_LOAD_FACTOR, Channel.SEND_OPTIONS_DEFAULT, cls);
    }

/**

```

```

    * Creates a new map
    * @param channel The channel to use for communication
    * @param timeout long - timeout for RPC messags
    * @param mapContextName String - unique name for this map, to allow multiple maps per channel
    */
    public LazyReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName,
ClassLoader[] cls) {
        super(owner, channel, timeout, mapContextName,
LazyReplicatedMap.DEFAULT_INITIAL_CAPACITY, LazyReplicatedMap.DEFAULT_LOAD_FACTOR, Channe
l.SEND_OPTIONS_DEFAULT, cls);
    }

```

```

//-----
//      METHODS TO OVERRIDE
//-----
protected int getStateMessageType() {
    return AbstractReplicatedMap.MapMessage.MSG_STATE;
}

/**
 * publish info about a map pair (key/value) to other nodes in the cluster
 * @param key Object
 * @param value Object
 * @return Member - the backup node
 * @throws ChannelException
 */
protected Member[] publishEntryInfo(Object key, Object value) throws ChannelException {
    if ( !(key instanceof Serializable && value instanceof Serializable) ) return new Member[0];
    Member[] members = getMapMembers();
    int firstIdx = getNextBackupIndex();
    int nextIdx = firstIdx;
    Member[] backup = new Member[0];

    //there are no backups
    if ( members.length == 0 || firstIdx == -1 ) return backup;

    boolean success = false;
    do {
        //select a backup node
        Member next = members[nextIdx];

        //increment for the next round of back up selection
        nextIdx = nextIdx + 1;
        if ( nextIdx >= members.length ) nextIdx = 0;

```



```

if (next == null) {
    continue;
}
MapMessage msg = null;
try {
    backup = wrap(next);
    //publish the backup data to one node
    msg = new MapMessage(getMapContextName(), MapMessage.MSG_BACKUP, false,
        (Serializable) key, (Serializable) value, null, channel.getLocalMember(false), backup);
    if ( log.isTraceEnabled() )
        log.trace("Publishing backup data:"+msg+" to: "+next.getName());
    UniqueId id = getChannel().send(backup, msg, getChannelSendOptions());
    if ( log.isTraceEnabled() )
        log.trace("Data published:"+msg+" msg Id:"+id);
    //we published out to a backup, mark the test success
    success = true;
} catch ( ChannelException x ) {
    log.error("Unable to replicate backup key:"+key+" to backup:"+next+". Reason:"+x.getMessage(),x);
}
try {
    //publish the data out to all nodes
    Member[] proxies = excludeFromSet(backup, getMapMembers());
    if (success && proxies.length > 0 ) {
        msg = new MapMessage(getMapContextName(), MapMessage.MSG_PROXY, false,
            (Serializable) key, null, null, channel.getLocalMember(false), backup);
        if ( log.isTraceEnabled() )
            log.trace("Publishing proxy data:"+msg+" to: "+Arrays.toString(proxies));
        getChannel().send(proxies, msg, getChannelSendOptions());
    }
} catch ( ChannelException x ) {
    //log the error, but proceed, this should only happen if a node went down,
    //and if the node went down, then it can't receive the message, the others
    //should still get it.
    log.error("Unable to replicate proxy key:"+key+" to backup:"+next+". Reason:"+x.getMessage(),x);
}
} while ( !success && (firstIdx!=nextIdx));
return backup;
}

```

```

}
/*

```

```

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```

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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.apache.catalina.tribes.tipis;
```

```
import java.io.Serializable;
```

```
import org.apache.catalina.tribes.Channel;  
import org.apache.catalina.tribes.ChannelException;  
import org.apache.catalina.tribes.ChannelListener;  
import org.apache.catalina.tribes.Member;  
import org.apache.catalina.tribes.MembershipListener;  
import org.apache.catalina.tribes.group.RpcCallback;  
import org.apache.catalina.tribes.tipis.AbstractReplicatedMap.MapOwner;
```

```
/**
```

```
* All-to-all replication for a hash map implementation. Each node in the cluster will carry an identical  

* copy of the map.<br><br>  

* This map implementation doesn't have a background thread running to replicate changes.  

* If you do have changes without invoking put/remove then you need to invoke one of the following methods:  

* <ul>  

* <li><code>replicate(Object,boolean)</code> - replicates only the object that belongs to the key</li>  

* <li><code>replicate(boolean)</code> - Scans the entire map for changes and replicates data</li>  

* </ul>  

* the <code>boolean</code> value in the <code>replicate</code> method used to decide  

* whether to only replicate objects that implement the <code>ReplicatedMapEntry</code> interface  

* or to replicate all objects. If an object doesn't implement the <code>ReplicatedMapEntry</code> interface  

* each time the object gets replicated the entire object gets serialized, hence a call to <code>replicate(true)</code>  

* will replicate all objects in this map that are using this node as primary.  

*  

* <br><br><b>REMBER TO CALL <code>breakdown()</code> or <code>finalize()</code> when you are done  

with the map to  

* avoid memory leaks.<br><br>  

* @todo implement periodic sync/transfer thread  

* @author Filip Hanik  

* @version 1.0  

*  

* @todo memberDisappeared, should do nothing except change map membership
```

```

*   by default it relocates the primary objects
*/
public class ReplicatedMap extends AbstractReplicatedMap implements RpcCallback, ChannelListener,
MembershipListener {

    protected static org.apache.juli.logging.Log log =
org.apache.juli.logging.LogFactory.getLog(ReplicatedMap.class);

//-----
//      CONSTRUCTORS / DESTRUCTORS
//-----
/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messags
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 * @param loadFactor float - load factor, see HashMap
 */
    public ReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity,float loadFactor, ClassLoader[] cls) {
        super(owner,channel, timeout, mapContextName, initialCapacity, loadFactor,
Channel.SEND_OPTIONS_DEFAULT, cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messags
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 * @param initialCapacity int - the size of this map, see HashMap
 */
    public ReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, int
initialCapacity, ClassLoader[] cls) {
        super(owner,channel, timeout, mapContextName, initialCapacity,
AbstractReplicatedMap.DEFAULT_LOAD_FACTOR,Channel.SEND_OPTIONS_DEFAULT, cls);
    }

/**
 * Creates a new map
 * @param channel The channel to use for communication
 * @param timeout long - timeout for RPC messags
 * @param mapContextName String - unique name for this map, to allow multiple maps per channel
 */
    public ReplicatedMap(MapOwner owner, Channel channel, long timeout, String mapContextName, ClassLoader[]
cls) {
        super(owner, channel, timeout, mapContextName,AbstractReplicatedMap.DEFAULT_INITIAL_CAPACITY,
AbstractReplicatedMap.DEFAULT_LOAD_FACTOR, Channel.SEND_OPTIONS_DEFAULT, cls);

```

```

}

//-----
//      METHODS TO OVERRIDE
//-----

protected int getStateMessageType() {
    return AbstractReplicatedMap.MapMessage.MSG_STATE_COPY;
}

/**
 * publish info about a map pair (key/value) to other nodes in the cluster
 * @param key Object
 * @param value Object
 * @return Member - the backup node
 * @throws ChannelException
 */
protected Member[] publishEntryInfo(Object key, Object value) throws ChannelException {
    if (!(key instanceof Serializable && value instanceof Serializable) ) return new Member[0];
    //select a backup node
    Member[] backup = getMapMembers();

    if (backup == null || backup.length == 0) return null;

    //publish the data out to all nodes
    MapMessage msg = new MapMessage(getMapContextName(), MapMessage.MSG_COPY, false,
        (Serializable) key, (Serializable) value, null, channel.getLocalMember(false), backup);

    getChannel().send(getMapMembers(), msg, getChannelSendOptions());

    return backup;
}

}

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 * limitations under the License.

```

```

*/
package org.apache.catalina.tribes.tipes;

import java.io.IOException;
import java.io.Serializable;

/**
 *
 * For smarter replication, an object can implement this interface to replicate diffs<br>
 * The replication logic will call the methods in the following order:<br>
 * <code>
 * 1. if ( entry.isDirty() ) <br>
 *     try {
 * 2.   entry.lock();<br>
 * 3.   byte[] diff = entry.getDiff();<br>
 * 4.   entry.reset();<br>
 *     } finally {<br>
 * 5.   entry.unlock();<br>
 *     }<br>
 * }<br>
 * </code>
 * <br>
 * <br>
 * When the data is deserialized the logic is called in the following order<br>
 * <code>
 * 1. ReplicatedMapEntry entry = (ReplicatedMapEntry)objectIn.readObject();<br>
 * 2. if ( isBackup(entry)||isPrimary(entry) ) entry.setOwner(owner); <br>
 * </code>
 * <br>
 *
 *
 * @author Filip Hanik
 * @version 1.0
 */
public interface ReplicatedMapEntry extends Serializable {

    /**
     * Has the object changed since last replication
     * and is not in a locked state
     * @return boolean
     */
    public boolean isDirty();

    /**
     * If this returns true, the map will extract the diff using getDiff()
     * Otherwise it will serialize the entire object.
     * @return boolean
     */
}

```

```

public boolean isDiffable();

/**
 * Returns a diff and sets the dirty map to false
 * @return byte[]
 * @throws IOException
 */
public byte[] getDiff() throws IOException;

/**
 * Applies a diff to an existing object.
 * @param diff byte[]
 * @param offset int
 * @param length int
 * @throws IOException
 */
public void applyDiff(byte[] diff, int offset, int length) throws IOException, ClassNotFoundException;

/**
 * Resets the current diff state and resets the dirty flag
 */
public void resetDiff();

/**
 * Lock during serialization
 */
public void lock();

/**
 * Unlock after serialization
 */
public void unlock();

/**
 * This method is called after the object has been
 * created on a remote map. On this method,
 * the object can initialize itself for any data that wasn't
 *
 * @param owner Object
 */
public void setOwner(Object owner);

/**
 * For accuracy checking, a serialized attribute can contain a version number
 * This number increases as modifications are made to the data.
 * The replicated map can use this to ensure accuracy on a periodic basis
 * @return long - the version number or -1 if the data is not versioned

```

```

*/
public long getVersion();

/**
 * Forces a certain version to a replicated map entry<br>
 * @param version long
 */
public void setVersion(long version);

}
/*
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 * limitations under the License.
*/

package org.apache.catalina.tribes.transport.bio;

import org.apache.catalina.tribes.io.ObjectReader;
import org.apache.catalina.tribes.transport.Constants;
import org.apache.catalina.tribes.transport.AbstractRxTask;
import java.net.Socket;
import java.io.InputStream;
import java.io.OutputStream;
import org.apache.catalina.tribes.io.ListenCallback;
import org.apache.catalina.tribes.ChannelMessage;
import org.apache.catalina.tribes.io.ChannelData;
import org.apache.catalina.tribes.io.BufferPool;

/**
 * A worker thread class which can drain channels and echo-back the input. Each
 * instance is constructed with a reference to the owning thread pool object.
 * When started, the thread loops forever waiting to be awakened to service the
 * channel associated with a SelectionKey object. The worker is tasked by

```

\* calling its serviceChannel() method with a SelectionKey object. The  
\* serviceChannel() method stores the key reference in the thread object then  
\* calls notify() to wake it up. When the channel has been drained, the worker  
\* thread returns itself to its parent pool.

\*

\* @author Filip Hanik

\*

\* @version \$Revision: 500684 \$, \$Date: 2007-01-28 00:27:18 +0100 (dim., 28 janv. 2007) \$

\*/

```
public class BioReplicationTask extends AbstractRxTask {
```

```
    protected static org.apache.juli.logging.Log log = org.apache.juli.logging.LogFactory.getLog(
        BioReplicationTask.class );
```

```
    protected Socket socket;
    protected ObjectReader reader;
```

```
    public BioReplicationTask (ListenCallback callback) {
        super(callback);
    }
```

```
    // loop forever waiting for work to do
```

```
    public synchronized void run()
```

```
    {
```

```
        if ( socket == null ) return;
```

```
        try {
```

```
            drainSocket();
```

```
        } catch ( Exception x ) {
```

```
            log.error("Unable to service bio socket");
```

```
        }finally {
```

```
            try {socket.close();} catch ( Exception ignore){}
```

```
            try {reader.close();} catch ( Exception ignore){}
```

```
            reader = null;
```

```
            socket = null;
```

```
        }
```

```
        // done, ready for more, return to pool
```

```
        if ( getThreadPool() != null ) getThreadPool().returnWorker (this);
```

```
    }
```

```
    public synchronized void serviceSocket(Socket socket, ObjectReader reader) {
```

```
        this.socket = socket;
```

```
        this.reader = reader;
```

```
        this.notify(); // awaken the thread
```

```
    }
```

```
    protected void execute(ObjectReader reader) throws Exception{
```



```

int pkgcnt = reader.count();

if ( pkgcnt > 0 ) {
    ChannelMessage[] msgs = reader.execute();
    for ( int i=0; i<msgs.length; i++ ) {
        /**
         * Use send ack here if you want to ack the request to the remote
         * server before completing the request
         * This is considered an asynchronized request
         */
        if (ChannelData.sendAckAsync(msgs[i].getOptions())) sendAck(Constants.ACK_COMMAND);
        try {
            //process the message
            getCallback().messageDataReceived(msgs[i]);
            /**
             * Use send ack here if you want the request to complete on this
             * server before sending the ack to the remote server
             * This is considered a synchronized request
             */
            if (ChannelData.sendAckSync(msgs[i].getOptions())) sendAck(Constants.ACK_COMMAND);
        } catch ( Exception x ) {
            if (ChannelData.sendAckSync(msgs[i].getOptions())) sendAck(Constants.FAIL_ACK_COMMAND);
            log.error("Error thrown from messageDataReceived.",x);
        }
        if ( getUseBufferPool() ) {
            BufferPool.getBufferPool().returnBuffer(msgs[i].getMessage());
            msgs[i].setMessage(null);
        }
    }
}

/**
 * The actual code which drains the channel associated with
 * the given key. This method assumes the key has been
 * modified prior to invocation to turn off selection
 * interest in OP_READ. When this method completes it
 * re-enables OP_READ and calls wakeup() on the selector
 * so the selector will resume watching this channel.
 */
protected void drainSocket () throws Exception {
    InputStream in = socket.getInputStream();
    // loop while data available, channel is non-blocking
    byte[] buf = new byte[1024];
    int length = in.read(buf);
    while ( length >= 0 ) {

```

```

        int count = reader.append(buf,0,length,true);
        if ( count > 0 ) execute(reader);
        length = in.read(buf);
    }
}

/**
 * send a reply-acknowledgement (6,2,3)
 * @param key
 * @param channel
 */
protected void sendAck(byte[] command) {
    try {
        OutputStream out = socket.getOutputStream();
        out.write(command);
        out.flush();
        if (log.isTraceEnabled()) {
            log.trace("ACK sent to " + socket.getPort());
        }
    } catch ( java.io.IOException x ) {
        log.warn("Unable to send ACK back through channel, channel disconnected?: "+x.getMessage());
    }
}

public void close() {
    setDoRun(false);
    try {socket.close();}catch ( Exception ignore){}
    try {reader.close();}catch ( Exception ignore){}
    reader = null;
    socket = null;
    super.close();
}
}
/**
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```

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\*/

```
package org.apache.catalina.tribes.transport.nio;  
import java.io.IOException;  
import java.nio.ByteBuffer;  
import java.nio.channels.SelectionKey;  
import java.nio.channels.SocketChannel;
```

```
import org.apache.catalina.tribes.io.ObjectReader;  
import org.apache.catalina.tribes.transport.Constants;  
import org.apache.catalina.tribes.transport.AbstractRxTask;  
import org.apache.catalina.tribes.ChannelMessage;  
import org.apache.catalina.tribes.io.ListenCallback;  
import org.apache.catalina.tribes.io.ChannelData;  
import org.apache.catalina.tribes.io.BufferPool;  
import java.nio.channels.CancelledKeyException;  
import org.apache.catalina.tribes.UniqueId;  
import org.apache.catalina.tribes.RemoteProcessException;  
import org.apache.catalina.tribes.util.Logs;
```

```
/**
```

```
* A worker thread class which can drain channels and echo-back the input. Each  
* instance is constructed with a reference to the owning thread pool object.  
* When started, the thread loops forever waiting to be awakened to service the  
* channel associated with a SelectionKey object. The worker is tasked by  
* calling its serviceChannel() method with a SelectionKey object. The  
* serviceChannel() method stores the key reference in the thread object then  
* calls notify() to wake it up. When the channel has been drained, the worker  
* thread returns itself to its parent pool.
```

```
*
```

```
* @author Filip Hanik
```

```
*
```

```
* @version $Revision: 546955 $, $Date: 2007-06-13 19:00:21 +0200 (mer., 13 juin 2007) $
```

```
*/
```

```
public class NioReplicationTask extends AbstractRxTask {
```

```
    private static org.apache.juli.logging.Log log = org.apache.juli.logging.LogFactory.getLog(  
NioReplicationTask.class );
```

```
    private ByteBuffer buffer = null;  
    private SelectionKey key;  
    private int rxBufSize;  
    private NioReceiver receiver;  
    public NioReplicationTask (ListenCallback callback, NioReceiver receiver)  
    {
```

```

    super(callback);
    this.receiver = receiver;
}

// loop forever waiting for work to do
public synchronized void run() {
    if ( buffer == null ) {
        if ( (getOptions() & OPTION_DIRECT_BUFFER) == OPTION_DIRECT_BUFFER) {
            buffer = ByteBuffer.allocateDirect(getRxBufSize());
        } else {
            buffer = ByteBuffer.allocate(getRxBufSize());
        }
    } else {
        buffer.clear();
    }
    if (key == null) {
        return; // just in case
    }
    if ( log.isTraceEnabled() )
        log.trace("Servicing key:"+key);

    try {
        ObjectReader reader = (ObjectReader)key.attachment();
        if ( reader == null ) {
            if ( log.isTraceEnabled() )
                log.trace("No object reader, cancelling:"+key);
            cancelKey(key);
        } else {
            if ( log.isTraceEnabled() )
                log.trace("Draining channel:"+key);

            drainChannel(key, reader);
        }
    } catch (Exception e) {
        //this is common, since the sockets on the other
        //end expire after a certain time.
        if ( e instanceof CancelledKeyException ) {
            //do nothing
        } else if ( e instanceof IOException ) {
            //dont spew out stack traces for IO exceptions unless debug is enabled.
            if (log.isDebugEnabled()) log.debug ("IOException in replication worker, unable to drain channel.
Probable cause: Keep alive socket closed["+e.getMessage()+"].", e);
            else log.warn ("IOException in replication worker, unable to drain channel. Probable cause: Keep alive
socket closed["+e.getMessage()+"].");
        } else if ( log.isErrorEnabled() ) {
            //this is a real error, log it.
            log.error("Exception caught in TcpReplicationThread.drainChannel.",e);
        }
    }
}

```

```

        cancelKey(key);
    } finally {

    }

    key = null;
    // done, ready for more, return to pool
    getTaskPool().returnWorker (this);
}

/**
 * Called to initiate a unit of work by this worker thread
 * on the provided SelectionKey object. This method is
 * synchronized, as is the run() method, so only one key
 * can be serviced at a given time.
 * Before waking the worker thread, and before returning
 * to the main selection loop, this key's interest set is
 * updated to remove OP_READ. This will cause the selector
 * to ignore read-readiness for this channel while the
 * worker thread is servicing it.
 */
public synchronized void serviceChannel (SelectionKey key) {
    if ( log.isTraceEnabled() ) log.trace("About to service key:"+key);
    ObjectReader reader = (ObjectReader)key.attachment();
    if ( reader != null ) reader.setLastAccess(System.currentTimeMillis());
    this.key = key;
    key.interestOps (key.interestOps() & (~SelectionKey.OP_READ));
    key.interestOps (key.interestOps() & (~SelectionKey.OP_WRITE));
}

/**
 * The actual code which drains the channel associated with
 * the given key. This method assumes the key has been
 * modified prior to invocation to turn off selection
 * interest in OP_READ. When this method completes it
 * re-enables OP_READ and calls wakeup() on the selector
 * so the selector will resume watching this channel.
 */
protected void drainChannel (final SelectionKey key, ObjectReader reader) throws Exception {
    reader.setLastAccess(System.currentTimeMillis());
    reader.access();
    SocketChannel channel = (SocketChannel) key.channel();
    int count;
    buffer.clear(); // make buffer empty

    // loop while data available, channel is non-blocking
    while ((count = channel.read (buffer)) > 0) {
        buffer.flip(); // make buffer readable
        if ( buffer.hasArray() )

```

```

        reader.append(buffer.array(),0,count,false);
    else
        reader.append(buffer,count,false);
    buffer.clear(); // make buffer empty
    //do we have at least one package?
    if ( reader.hasPackage() ) break;
}

int pkgcnt = reader.count();

if (count < 0 && pkgcnt == 0) {
    //end of stream, and no more packages to process
    remoteEof(key);
    return;
}

ChannelMessage[] msgs = pkgcnt == 0? ChannelData.EMPTY_DATA_ARRAY : reader.execute();

registerForRead(key,reader);//register to read new data, before we send it off to avoid dead locks

for ( int i=0; i<msgs.length; i++ ) {
    /**
     * Use send ack here if you want to ack the request to the remote
     * server before completing the request
     * This is considered an asynchronized request
     */
    if (ChannelData.sendAckAsync(msgs[i].getOptions())) sendAck(key,channel,Constants.ACK_COMMAND);
    try {
        if ( Logs.MESSAGES.isTraceEnabled() ) {
            try {
                Logs.MESSAGES.trace("NioReplicationThread - Received msg:" + new
UniqueId(msgs[i].getUniqueId()) + " at " + new java.sql.Timestamp(System.currentTimeMillis()));
            }catch ( Throwable t ) {}
        }
        //process the message
        getCallback().messageDataReceived(msgs[i]);
        /**
         * Use send ack here if you want the request to complete on this
         * server before sending the ack to the remote server
         * This is considered a synchronized request
         */
        if (ChannelData.sendAckSync(msgs[i].getOptions()))
sendAck(key,channel,Constants.ACK_COMMAND);
    }catch ( RemoteProcessException e ) {
        if ( log.isDebugEnabled() ) log.error("Processing of cluster message failed.",e);
        if (ChannelData.sendAckSync(msgs[i].getOptions()))
sendAck(key,channel,Constants.FAIL_ACK_COMMAND);
    }catch ( Exception e ) {

```

```

        log.error("Processing of cluster message failed.",e);
        if (ChannelData.sendAckSync(msgs[i].getOptions()))
sendAck(key,channel,Constants.FAIL_ACK_COMMAND);
    }
    if ( getUseBufferPool() ) {
        BufferPool.getBufferPool().returnBuffer(msgs[i].getMessage());
        msgs[i].setMessage(null);
    }
}

if (count < 0) {
    remoteEof(key);
    return;
}
}

private void remoteEof(SelectionKey key) {
    // close channel on EOF, invalidates the key
    if ( log.isDebugEnabled() ) log.debug("Channel closed on the remote end, disconnecting");
    cancelKey(key);
}

protected void registerForRead(final SelectionKey key, ObjectReader reader) {
    if ( log.isTraceEnabled() )
        log.trace("Adding key for read event:"+key);
    reader.finish();
    //register our OP_READ interest
    Runnable r = new Runnable() {
        public void run() {
            try {
                if (key.isValid()) {
                    // cycle the selector so this key is active again
                    key.selector().wakeup();
                    // resume interest in OP_READ, OP_WRITE
                    int resumeOps = key.interestOps() | SelectionKey.OP_READ;
                    key.interestOps(resumeOps);
                    if ( log.isTraceEnabled() )
                        log.trace("Registering key for read:"+key);
                }
            } catch (CancelledKeyException ckx ) {
                NioReceiver.cancelledKey(key);
                if ( log.isTraceEnabled() )
                    log.trace("CKX Cancelling key:"+key);
            } catch (Exception x) {
                log.error("Error registering key for read:"+key,x);
            }
        }
    }
}

```

```

    };
    receiver.addEvent(r);
}

private void cancelKey(final SelectionKey key) {
    if ( log.isTraceEnabled() )
        log.trace("Adding key for cancel event:"+key);

    ObjectReader reader = (ObjectReader)key.attachment();
    if ( reader != null ) {
        reader.setCancelled(true);
        reader.finish();
    }
    Runnable cx = new Runnable() {
        public void run() {
            if ( log.isTraceEnabled() )
                log.trace("Cancelling key:"+key);

            NioReceiver.cancelledKey(key);
        }
    };
    receiver.addEvent(cx);
}

```

```

/**
 * send a reply-acknowledgement (6,2,3)
 * @param key
 * @param channel
 */
protected void sendAck(SelectionKey key, SocketChannel channel, byte[] command) {

    try {
        ByteBuffer buf = ByteBuffer.wrap(command);
        int total = 0;
        while ( total < command.length ) {
            total += channel.write(buf);
        }
        if (log.isTraceEnabled()) {
            log.trace("ACK sent to " + channel.socket().getPort());
        }
    } catch ( java.io.IOException x ) {
        log.warn("Unable to send ACK back through channel, channel disconnected?: "+x.getMessage());
    }
}

```



```

public void setRxBufSize(int rxBufSize) {
    this.rxBufSize = rxBufSize;
}

public int getRxBufSize() {
    return rxBufSize;
}
}
/*
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 */

package org.apache.catalina.tribes.transport;

import org.apache.catalina.tribes.ChannelException;
import org.apache.catalina.tribes.ChannelMessage;
import org.apache.catalina.tribes.ChannelSender;
import org.apache.catalina.tribes.Member;
import org.apache.catalina.tribes.util.StringManager;
import org.apache.catalina.tribes.transport.nio.PooledParallelSender;

/**
 * Transmit message to other cluster members
 * Actual senders are created based on the replicationMode
 * type
 *
 * @author Filip Hanik
 * @version $Revision: 532800 $ $Date: 2007-04-26 18:52:29 +0200 (jeu., 26 avr. 2007) $
 */
public class ReplicationTransmitter implements ChannelSender {
    private static org.apache.juli.logging.Log log =
org.apache.juli.logging.LogFactory.getLog(ReplicationTransmitter.class);

    /**

```

```

* The descriptive information about this implementation.
*/
private static final String info = "ReplicationTransmitter/3.0";

/**
* The string manager for this package.
*/
protected StringManager sm = StringManager.getManager(Constants.Package);

public ReplicationTransmitter() {
}

private MultiPointSender transport = new PooledParallelSender();

/**
* Return descriptive information about this implementation and the
* corresponding version number, in the format
* <code>&lt;description&gt;/&lt;version&gt;</code>.
*/
public String getInfo() {
    return (info);
}

public MultiPointSender getTransport() {
    return transport;
}

public void setTransport(MultiPointSender transport) {
    this.transport = transport;
}

// ----- public

/**
* Send data to one member
* @see org.apache.catalina.tribes.ClusterSender#sendMessage(org.apache.catalina.tribes.ClusterMessage,
org.apache.catalina.tribes.Member)
*/
public void sendMessage(ChannelMessage message, Member[] destination) throws ChannelException {
    MultiPointSender sender = getTransport();
    sender.sendMessage(destination,message);
}

/**
* start the sender and register transmitter mbean

```

```

*
* @see org.apache.catalina.tribes.ClusterSender#start()
*/
public void start() throws java.io.IOException {
    getTransport().connect();
}

/*
* stop the sender and deregister mbeans (transmitter, senders)
*
* @see org.apache.catalina.tribes.ClusterSender#stop()
*/
public synchronized void stop() {
    getTransport().disconnect();
}

/**
* Call transmitter to check for sender socket status
*
* @see SimpleTcpCluster#backgroundProcess()
*/

public void heartbeat() {
    if (getTransport()!=null) getTransport().keepalive();
}

/**
* add new cluster member and create sender ( s. replicationMode) transfer
* current properties to sender
*
* @see org.apache.catalina.tribes.ClusterSender#add(org.apache.catalina.tribes.Member)
*/
public synchronized void add(Member member) {
    getTransport().add(member);
}

/**
* remove sender from transmitter. ( deregister mbean and disconnect sender )
*
* @see org.apache.catalina.tribes.ClusterSender#remove(org.apache.catalina.tribes.Member)
*/
public synchronized void remove(Member member) {
    getTransport().remove(member);
}

// ----- protected

```

}

## 4.90 validation-api 1.1.0

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# List of contributors

Red Hat Inc.

Dhanji R. Prasanna

Emmanuel Bernard

Gavin King

Gerhard Petracek

Gunnar Morling

Hardy Ferentschik

Kevin Pollet

Sebastian Thomschke

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# 5.5 asm-all-repackaged 2.2.0-b14

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## 5.7 c3p0 0.9.1.1

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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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## 5.30 jackson-jaxrs-json-provider 2.3.2

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## 5.53 jul-to-slf4j 1.7.11

## 5.54 Logback Classic Module 1.1.3

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## 5.55 Logback Core Module 1.1.3

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## 5.56 mail 1.4

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 */

/*
 * @(#)IllegalWriteException.java 1.5 05/08/29
 *
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 */

package javax.mail;

/**
 * The exception thrown when a write is attempted on a read-only attribute
```

\* of any Messaging object.

\*

\* @author John Mani

\*/

public

class IllegalWriteException extends MessagingException {

private static final long serialVersionUID = 3974370223328268013L;

/\*\*

\* Constructs a IllegalWriteException with no detail message.

\*/

public IllegalWriteException() {

super();

}

/\*\*

\* Constructs a IllegalWriteException with the specified detail message.

\* @param s the detail message

\*/

public IllegalWriteException(String s) {

super(s);

}

}

## 5.57 osgi-resource-locator 1.0.1

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/\*

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### 2.4.0-b06

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## 5.63 slf4j-api 1.7.11

## 5.64 SnakeYAML 1.14

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cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd

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## 5.88 tomcat-embed-logging-juli 7.0.34

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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Provision of the Service.

2.1 Console. Google will provide the Service to Customer. As part of receiving the Service, Customer will have access to the Admin Console, through which Customer may administer the Service.



2.2 Facilities and Data Transfer. All facilities used to store and process an Application and Customer Data will adhere to reasonable security standards no less protective than the security standards at facilities where Google processes and stores its own information of a similar type. Google has implemented at least industry standard systems and procedures to ensure the security and confidentiality of an Application and Customer Data, protect against anticipated threats or hazards to the security or integrity of an Application and Customer Data, and protect against unauthorized access to or use of an Application and Customer Content. Google may process and store an Application and Customer Data in the United States or any other country in which Google or its agents maintain facilities. By using the Service, Customer consents to this processing and storage of an Application and Customer Data. The parties agree that Google is merely a data processor.

### 2.3 Data Storage Selection.

Data Storage. Customer may select via the Service whether the Core App Engine End User Data will be stored permanently, at rest, in either the United States or the European Union, and Google will store it accordingly ("App Engine Data Location Setting"). If no selection is made, Core App Engine End User Data will be stored permanently, at rest, in the United States.

Transient Storage. Core App Engine End User Data may be stored transiently or cached in any country in which Google or its agents maintain facilities before reaching permanent storage.

Limitations. No App Engine Data Location Setting will apply to Core App Engine End User Data copied in another location or used with other Google products and services (including any other Google Cloud Platform services). If so, the Core App Engine End User Data will be processed and stored pursuant to Section 2.2 of this Agreement.

2.4 Accounts. Customer must have an Account to use the Service, and is responsible for the information it provides to create the Account, the security of its passwords for the Account, and for any use of its Account. If Customer becomes aware of any unauthorized use of its password or its Account, Customer will notify Google as promptly as possible.

2.5 Privacy Policies. The Service is subject to Google's Privacy Policy. Changes to the Privacy Policy will be made as stated in the applicable policy. In addition, Google is enrolled in the U.S. Department of Commerce Safe Harbor Program and will remain enrolled in this program or another replacement program (or will adopt a compliance solution which achieves compliance with the terms of Article 25 of Directive 95/46/EC) throughout the Term of the Agreement.

2.6 New Applications. Google may make new applications, tools, features or functionality available from time to time through the Service, the use of which may be contingent upon Customer's agreement to additional terms.

2.7 Modifications.

To the Service. Subject to Section 9.4 (Termination for Convenience), Google may make commercially reasonable Updates to the Service from time to time. If Google makes a material change to the Service, Google will inform Customer, provided that Customer has subscribed with Google to be informed about such change.

To the Agreement. Google may make changes to this Agreement, including pricing from time to time. Unless otherwise noted by Google, material changes to the Agreement will become effective 90 days after they are posted, except if the changes apply to new functionality in which case they will be effective immediately. If Customer does not agree to the revised Agreement, please stop using the Service. Google will post any modification to this Agreement to the Terms URL.

### 3. Payment Terms.

3.1 Free Quota. The Service is provided to Customer without charge up to the Fee Threshold.

3.2 Online Billing. Google will issue an electronic bill to Customer for all charges accrued above the Fee Threshold. Fees are solely based on Google's measurements of Customer's use of the Service, may include monthly fees, and Google's determination is final. For use above the Fee Threshold, Customer shall be responsible for all Fees up to the amount set in the Account and shall pay all Fees in U.S. Dollars or in such other currency as agreed to in writing by the parties. Customer shall pay all Fees in accordance with the payment terms in the Service FAQ.

3.3 Delinquent Payments. Late payments may bear interest at the rate of 1.5% per month (or the highest rate permitted by law, if less). Google reserves the right to suspend your Account for any late payments.

3.4 Taxes. Customer is responsible for any Taxes, and Customer will pay Google for the Services without any reduction for Taxes. If Google is obligated to collect or pay Taxes, the Taxes will be invoiced to Customer, unless Customer provides Google with a timely and valid tax exemption certificate authorized by the appropriate taxing authority. In some states the sales tax is due on the total purchase price at the time of sale and must be invoiced and collected at the time of the sale. If Customer is required by law to withhold any Taxes from its payments to Google, Customer must provide Google with an official tax receipt or other appropriate documentation to support such withholding payments.

3.5 Invoice Disputes & Refunds. To the fullest extent permitted by law, Customer waives all claims relating to Fees unless claimed within sixty days after charged (this does not affect any Customer rights with its credit card issuer). Refunds (if any) are at the discretion of Google and will only be in the form of credit for the Service. Nothing in this Agreement obligates Google to extend credit to any party.

#### 4. Customer Obligations.

4.1 Compliance. Customer is solely responsible for its Applications and Customer Data, and for making sure its Applications or Customer Data comply with the Acceptable Use Policy. Google reserves the right to review the Application or Customer Data to ensure Customer's compliance with the Acceptable Use Policy. Customer is responsible for ensuring all End Users comply with Customer's obligations under the Agreement.

4.2 Privacy. Customer will protect the privacy and legal rights of its End Users under all applicable laws and regulations, which includes a legally adequate privacy notice communicated from Customer. Customer may have the ability to access, monitor, use, or disclose Customer Data submitted by End Users through the Service. Customer will obtain and maintain any required consents from End Users to allow Customer's access, monitoring, use and disclosure of Customer Data. Further, Customer will notify its End Users that any Customer Data provided as part of the Service will be made available to a third party as part of Google providing the Service.

4.3 Restrictions. Customer will not, and will not allow third parties under its control to: (a) copy, modify, create a derivative work of, reverse engineer, decompile, translate, disassemble, or otherwise attempt to extract the source code of the Service or any component thereof (subject to Section 4.4 below); (b) use the Service for High Risk Activities; (c) sublicense, resell, or distribute the Service or any component thereof separate from any integrated Application; (d) use the Service to create, train, or improve (directly or indirectly) a substantially similar product or service, including any other machine translation engine; (e) create multiple Applications or Accounts to simulate or act as a single Application or Account (respectively) or otherwise access the Service in a manner intended to avoid incurring Fees; (f) use the Service to operate or enable any telecommunications service or in connection with any Application that allows End Users to place calls to or to receive calls from any public switched telephone network; or (g) process or store any Customer Data that is subject to the International Traffic in Arms Regulations maintained by the Department of State. Customer acknowledges that the Service is not HIPAA compliant and Customer is solely responsible for any applicable compliance with HIPAA.

4.4 Open Source Components. Open source software licenses for components of the Service released under an open source license constitute separate written agreements. Open source software is listed in the Documentation. To the limited extent the open source software licenses expressly supersede this Agreement, the open source license instead governs Customer's agreement with Google for the specific included open source components of the Service, or use of the Service (as may be applicable).

4.5 Documentation. Google may provide Documentation for Customer's use of the

Service. The Documentation may specify restrictions (e.g. attribution of HTML restrictions) on how the Applications may be built or the Service may be used and Customer agrees to comply with any such restrictions specified.

4.6 DMCA Policy. Google provides information to help copyright holders manage their intellectual property online, but Google cannot determine whether something is being used legally or not without their input. Google responds to notices of alleged copyright infringement and terminates accounts of repeat infringers according to the process set out in the U.S. Digital Millennium Copyright Act. If Customer thinks somebody is violating Customer's or its End Users' copyrights and wants to notify Google, Customer can find information about submitting notices, and Google's policy about responding to notices at <http://www.google.com/dmca.html>.

4.7 Application and No Multiple Accounts, Bills. Any Application must have material value independent from the Services. Google has no obligation to provide multiple bills or Accounts to Customer under the Agreement.

## 5. Suspension and Removals.

5.1 Suspension/Removals. If Customer becomes aware that any Application or an End User's use of an Application, or Customer Data violates the Acceptable Use Policy, Customer will immediately suspend the Application, remove the applicable Customer Data, or suspend access to an End User (as may be applicable). If Customer fails to suspend or remove as noted in the prior sentence, Google may specifically request that Customer do so. If Customer fails to comply with Google's request to do so within twenty-four hours, then Google may suspend Google accounts of the applicable End Users, disable the Application, and/or disable the Account (as may be applicable) until such violation is corrected.

5.2 Emergency Security Issues. Despite the foregoing, if there is an Emergency Security Issue, then Google may automatically suspend the offending End User account, Application or the Account. Suspension will be to the minimum extent required, and of the minimum duration, to prevent or terminate the Emergency Security Issue. If Google suspends an End User account or the Application or Account, for any reason, without prior notice to Customer, at Customer's request, Google will provide Customer the reason for the suspension as soon as is reasonably possible.

## 6. Intellectual Property Rights; Brand Features.

6.1 Intellectual Property Rights. Except as expressly set forth herein, this Agreement does not grant either party any rights, implied or otherwise, to the other's content or any of the other's intellectual property. As between the parties, Customer owns all Intellectual Property Rights in any Application and Customer Content, and Google owns all Intellectual Property Rights in the Service.

6.2 Brand Features Limitation. If Customer wants to display Google Brand Features in connection with its use of the Service, Customer must obtain written

permission from Google through process specified in the Trademark Guidelines. For the sole purpose of providing the Service, Customer permits Google to display any Brand Features that may appear in its Application. Any use of a party's Brand Features will inure to the benefit of the party holding Intellectual Property Rights to those Brand Features. A party may revoke the other party's right to use its Brand Features pursuant to this Agreement with written notice to the other and a reasonable period to stop the use.

## 7. Technical Support Service

7.1 By Customer. Customer is responsible for technical support of its Application.

## 7.2 Deprecation Policy.

Google will announce if we intend to discontinue or make backwards incompatible changes to this API or Service. We will use commercially reasonable efforts to continue to operate that Service without these changes until the later of: (i) one year after the announcement or (ii) April 20, 2015, unless (as Google determines in its reasonable good faith judgment):

required by law or third party relationship (including if there is a change in applicable law or relationship), or  
doing so could create a security risk or substantial economic or material technical burden.

This Deprecation Policy doesn't apply to versions, features, and functionality labeled as "experimental."

## 8. Confidential Information.

8.1 Obligations. The recipient of the other party's Confidential Information will not disclose the Confidential Information, except to Affiliates, employees, agents, or professional advisors who need to know it and who have agreed in writing (or in the case of professional advisors are otherwise bound) to keep it confidential. The recipient will ensure that those people and entities use the Confidential Information only to exercise rights and fulfill obligations under this Agreement, while using reasonable care to keep it confidential. The recipient may also disclose Confidential Information when required by law after giving reasonable notice to the discloser if allowed by law. The recipient may also disclose Confidential Information to the extent required by applicable Legal Process; provided that the recipient uses commercially reasonable efforts to: (i) promptly notify the other party of such disclosure before disclosing; and (ii) comply with the other party's reasonable requests regarding its efforts to oppose the disclosure. Notwithstanding the foregoing, subsections (i) and (ii) above will not apply if the recipient determines that complying with (i) and (ii) could: (a) result in a violation of Legal Process; (b) obstruct a governmental investigation; and/or (c) lead to death or serious physical harm to an individual. As between the parties, Customer is responsible for responding to

all third party requests concerning its use and its End Users' use of the Services.

## 9. Term and Termination.

9.1 Agreement Term. The license granted in this Agreement will remain in effect, unless terminated earlier as set forth in this Agreement.

9.2 Termination for Breach. Either party may terminate this Agreement for breach if: (i) the other party is in material breach of the Agreement and fails to cure that breach within thirty days after receipt of written notice; (ii) the other party ceases its business operations or becomes subject to insolvency proceedings and the proceedings are not dismissed within ninety days; or (iii) the other party is in material breach of this Agreement more than two times notwithstanding any cure of such breaches.

9.3 Termination for Inactivity. Google reserves the right to terminate the Service for inactivity, if, for a period exceeding ninety days, Customer (a) has failed to access the Admin Console, (b) an Application has not served any requests, and (c) no electronic bills are being generated.

9.4 Termination for Convenience. Customer may stop using the Service at any time. Customer may terminate this Agreement for convenience at any time on prior written notice and upon termination, must cease use of the Service. Google may terminate this Agreement for its convenience at any time without liability to Customer. Subject to Section 7.2, Google may discontinue the Service or any portion or feature for any reason at any time without liability to Customer.

9.5 Effects of Termination. If the Agreement expires or is terminated, then: (i) the rights granted by one party to the other will immediately cease; (ii) all Fees (including Taxes) owed by Customer to Google are immediately due upon receipt of the final electronic bill; (iii) Customer will delete the Software, any Application and any Customer Data; and (iv) upon request, each party will use commercially reasonable efforts to return or destroy all Confidential Information of the other party.

## 10. Publicity.

Customer is permitted to state publicly that it is a customer of the Service, consistent with the Trademark Guidelines. Customer agrees that Google may include Customer's name or Brand Features in a list of Google customers, online or promotional materials. Customer also agrees that Google may verbally reference Customer as a customer of the Google products or services that are the subject of this Agreement. This section is subject to the "Brand Features Limitation" section of the Agreement. For clarification, neither party needs to seek approval from the other if the party is repeating a public statement that is substantially similar to a public statement that has been previously approved.

## 11. Representations.

Each party represents that: (a) it has full power and authority to enter into the Agreement; and (b) it will comply with all laws and regulations applicable to its provision, or use, of the Service, as applicable. Google warrants it will provide the Service in accordance with the applicable SLA.

## 12. Disclaimer.

EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, GOOGLE DOES NOT MAKE ANY OTHER WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NONINFRINGEMENT.

GOOGLE IS NOT RESPONSIBLE OR LIABLE FOR THE DELETION OF OR FAILURE TO STORE ANY CONTENT AND OTHER COMMUNICATIONS MAINTAINED OR TRANSMITTED THROUGH USE OF THE SERVICE. CUSTOMER IS SOLELY RESPONSIBLE FOR SECURING AND BACKING UP ITS APPLICATION AND CUSTOMER CONTENT. GOOGLE DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE OR THE SERVICE WILL BE ERROR-FREE OR UNINTERRUPTED. NEITHER THE SOFTWARE NOR THE SERVICE ARE DESIGNED, MANUFACTURED, OR INTENDED FOR HIGH RISK ACTIVITIES.

## 13. Limitation of Liability.

13.1 Limitation on Indirect Liability. TO THE MAXIMUM EXTEND PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIERS, WILL BE LIABLE UNDER THIS AGREEMENT FOR LOST REVENUES OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, EVEN IF THE PARTY KNEW OR SHOULD HAVE KNOWN THAT SUCH DAMAGES WERE POSSIBLE AND EVEN IF DIRECT DAMAGES DO NOT SATISFY A REMEDY.

13.2 Limitation on Amount of Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIER'S, MAY BE HELD LIABLE UNDER THIS AGREEMENT FOR MORE THAN THE AMOUNT PAID BY CUSTOMER TO GOOGLE DURING THE TWELVE MONTHS PRIOR TO THE EVENT GIVING RISE TO LIABILITY.

13.3 Exceptions to Limitations. These limitations of liability do not apply to breaches of confidentiality obligations, violations of a party's Intellectual Property Rights by the other party, or indemnification obligations.

## 14. Indemnification.

14.1 By Customer. Customer will indemnify, defend, and hold harmless Google from and against all liabilities, damages, and costs (including settlement costs and reasonable attorneys' fees) arising out of a third party claim: (i) regarding any Application or Customer Content; (ii) that Customer Brand Features infringe or misappropriate any patent, copyright, trade secret or trademark of a third party; or (iii) regarding Customer's, or its End Users', use of the Service in violation of the Acceptable Use Policy.

14.2 By Google. Google will indemnify, defend, and hold harmless Customer from and against all liabilities, damages, and costs (including settlement costs and

reasonable attorneys' fees) arising out of a third party claim that Google's technology used to provide the Service (excluding any open source software) or any Google Brand Feature infringes or misappropriates any patent, copyright, trade secret or trademark of such third party. Notwithstanding the foregoing, in no event shall Google have any obligations or liability under this Section arising from: (i) use of any Service or Google Brand Features in a modified form or in combination with materials not furnished by Google, and (ii) any Customer Content.

#### 14.3 Possible Infringement.

**Repair, Replace, or Modify.** If Google reasonably believes the Service infringes a third party's Intellectual Property Rights, then Google will: (a) obtain the right for Customer, at Google's expense, to continue using the Service; (b) provide a non-infringing functionally equivalent replacement; or (c) modify the Service so that it no longer infringes.

**Suspension or Termination.** If Google does not believe the foregoing options are commercially reasonable, then Google may suspend or terminate Customer's use of the impacted Service.

**14.4 General.** As a condition to indemnification for a claim, the party seeking indemnification must promptly notify the other party of the claim in writing and cooperate with the other party in defending the claim. The indemnifying party has full control and authority over the defense, except that: (a) any settlement requiring the party seeking indemnification to admit liability or to pay any money will require that party's prior written consent, such consent not to be unreasonably withheld or delayed; and (b) the other party may join in the defense with its own counsel at its own expense. Notwithstanding the foregoing, if the indemnified party settles without the prior written consent of the indemnifying party, the indemnifying party has no obligation of contribution.

**THE INDEMNITIES ABOVE ARE THE ONLY REMEDY UNDER THIS AGREEMENT FOR VIOLATION OF A THIRD PARTY'S INTELLECTUAL PROPERTY RIGHTS.**

#### 15. Government Purposes (applicable to United States government customers only).

The Service was developed solely at private expense and is commercial computer software and related documentation within the meaning of the applicable civilian and military Federal acquisition regulations and any supplements thereto. If the user of the Service is an agency, department, employee, or other entity of the United States Government, under FAR 12.212 and DFARS 227.7202, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Service, including technical data or manuals, is governed by the terms and conditions contained in this Agreement, which is Google's standard commercial license agreement.

#### 16. Miscellaneous.

**16.1 Notices.** All notices must be in writing and addressed to the other party's legal department and primary point of contact. The email address for notices being sent to Google's Legal Department is legal-notices@google.com. Notice will



be treated as given: (a) on receipt as verified by written automated receipt or by electronic log (as applicable).

16.2 Assignment. Neither party may assign any part of this Agreement without the written consent of the other, except to an Affiliate where: (a) the assignee has agreed in writing to be bound by the terms of this Agreement; (b) the assigning party remains liable for obligations under the Agreement if the assignee defaults on them; and (c) the assigning party has notified the other party of the assignment. Any other attempt to assign is void.

16.3 Change of Control. If a party experiences a change of Control (for example, through a stock purchase or sale, merger, or other form of corporate transaction): (a) that party will give written notice to the other party within thirty days after the change of Control; and (b) the other party may immediately terminate this Agreement any time between the change of Control and thirty days after it receives that written notice.

16.4 Force Majeure. Neither party will be liable for failure or delay in performance to the extent caused by circumstances beyond its reasonable control.

16.5 No Agency. This Agreement does not create any agency, partnership or joint venture between the parties.

16.6 No Waiver. Neither party will be treated as having waived any rights by not exercising (or delaying the exercise of) any rights under this Agreement.

16.7 Severability. If any term (or part of a term) of this Agreement is invalid, illegal or unenforceable, the rest of the Agreement will remain in effect.

16.8 No Third-Party Beneficiaries. This Agreement does not confer any benefits on any third party unless it expressly states that it does.

16.9 Equitable Relief. Nothing in this Agreement will limit either party's ability to seek equitable relief.

16.10 Governing Law.

For City, County, and State Government Entities. If Customer is a city, county or state government entity, then the parties agree to remain silent regarding governing law and venue.

For Federal Government Entities. If Customer is a federal government entity then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY THE LAWS OF THE UNITED STATES OF AMERICA, EXCLUDING ITS CONFLICT OF LAWS RULES. SOLELY TO THE EXTENT PERMITTED BY FEDERAL LAW: (I) THE LAWS OF THE STATE OF CALIFORNIA (EXCLUDING CALIFORNIA'S CONFLICT OF LAWS RULES) WILL APPLY IN THE ABSENCE OF APPLICABLE FEDERAL LAW; AND (II) FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE, THE PARTIES CONSENT TO PERSONAL JURISDICTION IN, AND THE EXCLUSIVE VENUE OF, THE

## COURTS IN SANTA CLARA COUNTY, CALIFORNIA.

For All Other Entities. If Customer is any entity not set forth in Section 16.10(a) or (b) then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICE WILL BE GOVERNED BY CALIFORNIA LAW, EXCLUDING THAT STATE'S CONFLICT OF LAWS RULES, AND WILL BE LITIGATED EXCLUSIVELY IN THE FEDERAL OR STATE COURTS OF SANTA CLARA COUNTY, CALIFORNIA, USA;THE PARTIES CONSENT TO PERSONAL JURISDICTION IN THOSE COURTS.

16.11 Amendments. Any amendment must be in writing, signed by both parties, and expressly state that it is amending this Agreement.

16.12 Survival. The following Sections will survive expiration or termination of this Agreement: 6.1 (Intellectual Property Rights), 8 (Confidential Information), 9.5 (Effects of Termination), 13 (Limitation of Liability), 14 (Indemnification) and 16 (Miscellaneous).

16.13 Entire Agreement. This Agreement supersedes all other agreements between the parties relating to its subject matter. In entering into this Agreement, neither party has relied on, and neither party will have any right remedy based on, any statement, representation or warranty (whether made negligently or innocently), except those expressly set out in this Agreement. The terms located at a URL referenced in this Agreement and the Documentation are hereby incorporated by this reference. After the Effective Date, Google may provide Customer with an updated URL in place of any URL in this Agreement.

16.14 Interpretation of Conflicting Terms. If there is a conflict among the documents that make up this Agreement, the documents will control in the following order: the Agreement, and the terms located at any URL.

16.15 Counterparts. The parties may execute this Agreement in counterparts, including facsimile, PDF and other electronic copies, which taken together will constitute one instrument.

16.16 Definitions.

"Acceptable Use Policy" means the acceptable use policy set forth here:  
<http://developers.google.com/cloud/terms/aup>.

"Account" means Customer's Google account (either gmail.com address or an Email address provided under the

"Google Apps" product line); subject to those terms of service, as may be applicable.

"Admin Console" means the online tool provided by Google to Customer for administering the Service.

"Affiliate" means any entity that directly or indirectly controls, is controlled by, or is under common control with a party.

"Application(s)" means any web application Customer creates using the Service, including any source code written by Customer to be used with the Service.

"Brand Features" means the trade names, trademarks, service marks, logos, domain names, and other distinctive brand features of each party, respectively, as secured by such party from time to time.

"Confidential Information" means information that one party (or an Affiliate) discloses to the other party under this Agreement, and which is marked as confidential or would normally under the circumstances be considered confidential information. It does not include information that the recipient already rightfully knew, that becomes public through no fault of the recipient, that was independently developed by the recipient, or that was lawfully given to the recipient by a third party. Customer Data is considered Customer's Confidential Information.

"Control" means control of greater than fifty percent of the voting rights or equity interests of a party.

"Core App Engine End User Data" means content provided through the use of an Application running on Google App Engine, by those End Users who are not acting as Developer End Users (and information related to those End Users stored by the Application), but excluding authentication information for those End Users' Google accounts.

"Customer Data" means content provided, transmitted or displayed via the Service by Customer, or its End Users; but excluding any data provided as part of the Account.

"Documentation" means the Google documentation in the form generally made available by Google to its customers for use with the Service, as may be found here: <https://developers.google.com/appengine/docs> or such other URL as Google may provide.

"Emergency Security Issue" means either: (a) Customer's or its End User's use of the Service in violation of the Acceptable Use Policy, which could disrupt: (i) the Service; (ii) other Customers' or its End Users' use of the Service; or (iii) the Google network or servers used to provide the Service; or (b) unauthorized third party access to the Service.

"End Users" means the individuals Customer permits to use the Application.

"Export Control Laws" means all applicable export and re-export control laws and regulations, including the Export Administration Regulations ("EAR") maintained by the U.S. Department of Commerce, trade and economic sanctions maintained by the Treasury Department's Office of Foreign Assets Control, and the International Traffic in Arms Regulations ("ITAR") maintained by the Department of State.

"Fee Threshold" means the threshold (as may be updated from time to time), which is more fully described here: <https://developers.google.com/appengine/docs/quotas>.

"Fees" means the applicable fees for the Service and any applicable Taxes as set forth here: <https://developers.google.com/appengine/docs/billing>.

"High Risk Activities" means uses such as the operation of nuclear facilities, air traffic control, or life support systems, where the use or failure of the Service could lead to death, personal injury, or environmental damage.

"HIPAA" means the Health Insurance Portability and Accountability Act of 1996 as it may be amended from time to time, and any regulations issued

thereunder.

"Intellectual Property Rights" means current and future worldwide rights under patent law, copyright law, trade secret law, trademark law, moral rights law, and other similar rights.

"Legal Process" means a request for disclosure of data made pursuant to law, governmental regulation, court order, subpoena, warrant, governmental regulatory or agency request, or other valid legal authority, legal procedure, or similar process.

"Privacy Policy" means Google's privacy policy located at: <https://www.google.com/privacypolicy.html> or such other URL as Google may provide.

"Protected Health Information" means the definition on 45 CFR 160.103, limited to the information created or received by a business associate from on or behalf of a covered entity.

"Service" means the Google App Engine Service as more fully described here: <https://developers.google.com/appengine/> or such other URL as Google may provide. The APIs provided under the Service are listed here: [https://developers.google.com/appengine/appengine\\_services](https://developers.google.com/appengine/appengine_services) or such other URL as Google may provide.

"Service FAQ" means those FAQs more fully described here: <https://developers.google.com/appengine/kb> or such other URL as Google may provide.

Service Level Agreement or SLA means the service level agreement then in effect for the Service available at the following URL: <https://developers.google.com/appengine/sla> or such other URL as Google may provide.

"Software" means any downloadable tools, software development kits or other such proprietary computer software provided by Google in connection with the Service, which may be downloaded by Customer, and any updates Google may make to such Software from time to time.

"Taxes" means any duties, customs fees, or taxes (other than Google's income tax) associated with the purchase of the Service, including any related penalties or interest.

"Terms URL" means the following URL: <https://developers.google.com/appengine/terms> or such other URL as Google may provide.

"Third Party Request" means a request from a third party for records relating to an End User's use of the Services. Third Party Requests can be a lawful search warrant, court order, subpoena, other valid legal order, or written consent from the End User permitting the disclosure.

"Trademark Guidelines" means Google's Guidelines for Third Party Use of Google Brand Features, located at the following URL: <http://www.google.com/permissions/guidelines.html> or such other URL as Google may provide.

"Updates" means the periodic software updates provided by Google to Customer from time to time. Updates are designed to improve, enhance and further develop the Service and may take the form of bug fixes, enhanced functions, new software modules and completely new versions.

"Updates" means the periodic software updates provided by Google to Customer from time to time. Updates are designed to improve, enhance and further develop the Service and may take the form of bug fixes, enhanced functions, new software modules and completely new versions.

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Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

ICU License - ICU 1.8.1 and later

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## 6.5 avaje-ebeanorm 3.3.4

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## 6.6 avaje-ebeanorm-agent 3.2.2

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains  
test data from <http://aspell.sourceforge.net/test/batch0.tab>.

## 6.15 commons-lang3 3.1

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2000-05-05

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## 6.36 jaxb-api 2.2.2

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# 6.41 jboss-logging 3.2.0.Final

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## 6.42 jcl-over-slf4j 1.7.6

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\*/

package org.apache.commons.logging;

/\*\*

\* <p>A simple logging interface abstracting logging APIs. In order to be



```

* instantiated successfully by { @link LogFactory }, classes that implement
* this interface must have a constructor that takes a single String
* parameter representing the "name" of this Log.</p>
*
* <p> The six logging levels used by <code>Log</code> are (in order):
* <ol>
* <li>trace (the least serious)</li>
* <li>debug</li>
* <li>info</li>
* <li>warn</li>
* <li>error</li>
* <li>fatal (the most serious)</li>
* </ol>
* The mapping of these log levels to the concepts used by the underlying
* logging system is implementation dependent.
* The implementation should ensure, though, that this ordering behaves
* as expected.</p>
*
* <p>Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged).</p>
*
* <p> For example,
* <code><pre>
*   if (log.isDebugEnabled()) {
*     ... do something expensive ...
*     log.debug(theResult);
*   }
* </pre></code>
* </p>
*
* <p>Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
*
* <p style="color: #E40; font-weight: bold;">Please note that this interface is identical to that found in JCL
1.1.1.</p>
*
* @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

    // ----- Logging Properties

```

```
/**
 * <p> Is debug logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than debug. </p>
 */
public boolean isDebugEnabled();
```

```
/**
 * <p> Is error logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than error. </p>
 */
public boolean isErrorEnabled();
```

```
/**
 * <p> Is fatal logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than fatal. </p>
 */
public boolean isFatalEnabled();
```

```
/**
 * <p> Is info logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than info. </p>
 *
 * @return true if info enabled, false otherwise
 */
public boolean isInfoEnabled();
```

```
/**
 * <p> Is trace logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
```

```

* when the log level is more than trace. </p>
*
* @return true if trace enabled, false otherwise
*/
public boolean isTraceEnabled();

/**
* <p> Is warn logging currently enabled? </p>
*
* <p> Call this method to prevent having to perform expensive operations
* (for example, <code>String</code> concatenation)
* when the log level is more than warn. </p>
*/
public boolean isWarnEnabled();

// ----- Logging Methods

/**
* <p> Log a message with trace log level. </p>
*
* @param message log this message
*/
public void trace(Object message);

/**
* <p> Log an error with trace log level. </p>
*
* @param message log this message
* @param t log this cause
*/
public void trace(Object message, Throwable t);

/**
* <p> Log a message with debug log level. </p>
*
* @param message log this message
*/
public void debug(Object message);

/**
* <p> Log an error with debug log level. </p>
*

```

```
* @param message log this message
* @param t log this cause
*/
public void debug(Object message, Throwable t);
```

```
/**
 * <p> Log a message with info log level. </p>
 *
 * @param message log this message
 */
public void info(Object message);
```

```
/**
 * <p> Log an error with info log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void info(Object message, Throwable t);
```

```
/**
 * <p> Log a message with warn log level. </p>
 *
 * @param message log this message
 */
public void warn(Object message);
```

```
/**
 * <p> Log an error with warn log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void warn(Object message, Throwable t);
```

```
/**
 * <p> Log a message with error log level. </p>
 *
 * @param message log this message
 */
public void error(Object message);
```

```

/**
 * <p> Log an error with error log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void error(Object message, Throwable t);

/**
 * <p> Log a message with fatal log level. </p>
 *
 * @param message log this message
 */
public void fatal(Object message);

/**
 * <p> Log an error with fatal log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void fatal(Object message, Throwable t);

}

```

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## 6.46 jul-to-slf4j 1.7.6

## 6.47 logback-classic 1.1.1

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## 6.50 netty-http-pipelining 1.1.2

## 6.51 Ning AsyncHttpClient 1.8.15

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## 6.52 openstack4j 2.0.1

## 6.53 org.json-chargebee 1.0

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## 6.54 Play-framework-2.3.8 2.3.8

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## 6.58 Scala-parser-combinators\_2.11 1.0.1

## 6.59 Scala-reflect 2.11.1

## 6.60 scala-stm 2.11-07

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```

```
*/
```

```
package oauth.signpost.commonshhttp;
```

```
import java.io.IOException;
```

```
import oauth.signpost.AbstractOAuthProvider;  
import oauth.signpost.http.HttpRequest;
```

```
import org.apache.http.HttpEntity;  
import org.apache.http.HttpResponse;
```

```

import org.apache.http.client.HttpClient;
import org.apache.http.client.methods.HttpPost;
import org.apache.http.client.methods.HttpUriRequest;
import org.apache.http.impl.client.DefaultHttpClient;

/**
 * This implementation uses the Apache Commons {@link HttpClient} 4.x HTTP
 * implementation to fetch OAuth tokens from a service provider. Android users
 * should use this provider implementation in favor of the default one, since
 * the latter is known to cause problems with Android's Apache Harmony
 * underpinnings.
 *
 * @author Matthias Kaeppler
 */
public class CommonsHttpOAuthProvider extends AbstractOAuthProvider {

    private static final long serialVersionUID = 1L;

    private transient HttpClient httpClient;

    public CommonsHttpOAuthProvider(String requestTokenEndpointUrl, String accessTokenEndpointUrl,
        String authorizationWebsiteUrl) {
        super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
        this.httpClient = new DefaultHttpClient();
    }

    public CommonsHttpOAuthProvider(String requestTokenEndpointUrl, String accessTokenEndpointUrl,
        String authorizationWebsiteUrl, HttpClient httpClient) {
        super(requestTokenEndpointUrl, accessTokenEndpointUrl, authorizationWebsiteUrl);
        this.httpClient = httpClient;
    }

    public void setHttpClient(HttpClient httpClient) {
        this.httpClient = httpClient;
    }

    @Override
    protected HttpRequest createRequest(String endpointUrl) throws Exception {
        HttpPost request = new HttpPost(endpointUrl);
        return new HttpRequestAdapter(request);
    }

    @Override
    protected oauth.signpost.http.HttpResponse sendRequest(HttpRequest request) throws Exception {
        HttpResponse response = httpClient.execute((HttpUriRequest) request.unwrap());
        return new HttpResponseAdapter(response);
    }
}

```

```

@Override
protected void closeConnection(HttpServletRequest request, oauth.signpost.http.HttpResponse response)
    throws Exception {
    if (response != null) {
        HttpEntity entity = ((HttpResponse) response.unwrap()).getEntity();
        if (entity != null) {
            try {
                // free the connection
                entity.consumeContent();
            } catch (IOException e) {
                // this means HTTP keep-alive is not possible
                e.printStackTrace();
            }
        }
    }
}
}
}
}

```

## 6.63 signpost-core 1.2.1.2

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```
*/
```

```
package oauth.signpost;
```

```
import java.io.IOException;
```



```

import java.io.InputStream;
import java.util.Random;

import oauth.signpost.basic.UrlStringRequestAdapter;
import oauth.signpost.exception.OAuthCommunicationException;
import oauth.signpost.exception.OAuthExpectationFailedException;
import oauth.signpost.exception.OAuthMessageSignerException;
import oauth.signpost.http.HttpParameters;
import oauth.signpost.http.HttpRequest;
import oauth.signpost.signature.AuthorizationHeaderSigningStrategy;
import oauth.signpost.signature.HmacSha1MessageSigner;
import oauth.signpost.signature.OAuthMessageSigner;
import oauth.signpost.signature.QueryStringSigningStrategy;
import oauth.signpost.signature.SigningStrategy;

/**
 * ABC for consumer implementations. If you're developing a custom consumer you
 * will probably inherit from this class to save you a lot of work.
 *
 * @author Matthias Kaeppler
 */
public abstract class AbstractOAuthConsumer implements OAuthConsumer {

    private static final long serialVersionUID = 1L;

    private String consumerKey, consumerSecret;

    private String token;

    private OAuthMessageSigner messageSigner;

    private SigningStrategy signingStrategy;

    // these are params that may be passed to the consumer directly (i.e.
    // without going through the request object)
    private HttpParameters additionalParameters;

    // these are the params which will be passed to the message signer
    private HttpParameters requestParameters;

    private boolean sendEmptyTokens;

    final private Random random = new Random(System.nanoTime());

    public AbstractOAuthConsumer(String consumerKey, String consumerSecret) {
        this.consumerKey = consumerKey;
        this.consumerSecret = consumerSecret;
        setMessageSigner(new HmacSha1MessageSigner());
    }

```

```

    setSigningStrategy(new AuthorizationHeaderSigningStrategy());
}

public void setMessageSigner(OAuthMessageSigner messageSigner) {
    this.messageSigner = messageSigner;
    messageSigner.setConsumerSecret(consumerSecret);
}

public void setSigningStrategy(SigningStrategy signingStrategy) {
    this.signingStrategy = signingStrategy;
}

public void setAdditionalParameters(HttpParameters additionalParameters) {
    this.additionalParameters = additionalParameters;
}

public synchronized HttpRequest sign(HttpRequest request) throws OAuthMessageSignerException,
    OAuthExpectationFailedException, OAuthCommunicationException {
    if (consumerKey == null) {
        throw new OAuthExpectationFailedException("consumer key not set");
    }
    if (consumerSecret == null) {
        throw new OAuthExpectationFailedException("consumer secret not set");
    }

    requestParameters = new HttpParameters();
    try {
        if (additionalParameters != null) {
            requestParameters.putAll(additionalParameters, false);
        }
        collectHeaderParameters(request, requestParameters);
        collectQueryParameters(request, requestParameters);
        collectBodyParameters(request, requestParameters);

        // add any OAuth params that haven't already been set
        completeOAuthParameters(requestParameters);

        requestParameters.remove(OAuth.OAUTH_SIGNATURE);

    } catch (IOException e) {
        throw new OAuthCommunicationException(e);
    }

    String signature = messageSigner.sign(request, requestParameters);
    OAuth.debugOut("signature", signature);

    signingStrategy.writeSignature(signature, request, requestParameters);
    OAuth.debugOut("Request URL", request.getRequestUrl());
}

```

```

        return request;
    }

    public synchronized HttpRequest sign(Object request) throws OAuthMessageSignerException,
        OAuthExpectationFailedException, OAuthCommunicationException {
        return sign(wrap(request));
    }

    public synchronized String sign(String url) throws OAuthMessageSignerException,
        OAuthExpectationFailedException, OAuthCommunicationException {
        HttpRequest request = new UrlStringRequestAdapter(url);

        // switch to URL signing
        SigningStrategy oldStrategy = this.signingStrategy;
        this.signingStrategy = new QueryStringSigningStrategy();

        sign(request);

        // revert to old strategy
        this.signingStrategy = oldStrategy;

        return request.getRequestUrl();
    }

    /**
     * Adapts the given request object to a Signpost { @link HttpRequest}. How
     * this is done depends on the consumer implementation.
     *
     * @param request
     *     the native HTTP request instance
     * @return the adapted request
     */
    protected abstract HttpRequest wrap(Object request);

    public void setTokenWithSecret(String token, String tokenSecret) {
        this.token = token;
        messageSigner.setTokenSecret(tokenSecret);
    }

    public String getToken() {
        return token;
    }

    public String getTokenSecret() {
        return messageSigner.getTokenSecret();
    }
}

```

```

public String getConsumerKey() {
    return this.consumerKey;
}

public String getConsumerSecret() {
    return this.consumerSecret;
}

/**
 * <p>
 * Helper method that adds any OAuth parameters to the given request
 * parameters which are missing from the current request but required for
 * signing. A good example is the oauth_nonce parameter, which is typically
 * not provided by the client in advance.
 * </p>
 * <p>
 * It's probably not a very good idea to override this method. If you want
 * to generate different nonces or timestamps, override
 * {@link #generateNonce()} or {@link #generateTimestamp()} instead.
 * </p>
 *
 * @param out
 *     the request parameter which should be completed
 */
protected void completeOAuthParameters(HttpParameters out) {
    if (!out.containsKey(OAuth.OAUTH_CONSUMER_KEY)) {
        out.put(OAuth.OAUTH_CONSUMER_KEY, consumerKey, true);
    }
    if (!out.containsKey(OAuth.OAUTH_SIGNATURE_METHOD)) {
        out.put(OAuth.OAUTH_SIGNATURE_METHOD, messageSigner.getSignatureMethod(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_TIMESTAMP)) {
        out.put(OAuth.OAUTH_TIMESTAMP, generateTimestamp(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_NONCE)) {
        out.put(OAuth.OAUTH_NONCE, generateNonce(), true);
    }
    if (!out.containsKey(OAuth.OAUTH_VERSION)) {
        out.put(OAuth.OAUTH_VERSION, OAuth.VERSION_1_0, true);
    }
    if (!out.containsKey(OAuth.OAUTH_TOKEN)) {
        if (token != null && !token.equals("") || sendEmptyTokens) {
            out.put(OAuth.OAUTH_TOKEN, token, true);
        }
    }
}

public HttpParameters getRequestParameters() {

```

```

    return requestParameters;
}

public void setSendEmptyTokens(boolean enable) {
    this.sendEmptyTokens = enable;
}

/**
 * Collects OAuth Authorization header parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectHeaderParameters(HttpServletRequest request, HttpParameters out) {
    HttpParameters headerParams =
OAuth.oauthHeaderToParamsMap(request.getHeader(OAuth.HTTP_AUTHORIZATION_HEADER));
    out.putAll(headerParams, false);
}

/**
 * Collects x-www-form-urlencoded body parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectBodyParameters(HttpServletRequest request, HttpParameters out)
    throws IOException {

    // collect x-www-form-urlencoded body params
    String contentType = request.getContentType();
    if (contentType != null && contentType.startsWith(OAuth.FORM_ENCODED)) {
        InputStream payload = request.getMessagePayload();
        out.putAll(OAuth.decodeForm(payload, true);
    }
}

/**
 * Collects HTTP GET query string parameters as per OAuth Core 1.0 spec
 * section 9.1.1
 */
protected void collectQueryParameters(HttpServletRequest request, HttpParameters out) {

    String url = request.getRequestUrl();
    int q = url.indexOf('?');
    if (q >= 0) {
        // Combine the URL query string with the other parameters:
        out.putAll(OAuth.decodeForm(url.substring(q + 1)), true);
    }
}

protected String generateTimestamp() {
    return Long.toString(System.currentTimeMillis() / 1000L);
}

```

```

    }

    protected String generateNonce() {
        return Long.toString(random.nextLong());
    }
}
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 */

package com.google.gdata.util.common.base;

/**
 * An object that converts literal text into a format safe for inclusion in a
 * particular context (such as an XML document). Typically (but not always), the
 * inverse process of "unescaping" the text is performed automatically by the
 * relevant parser.
 *
 * <p>For example, an XML escaper would convert the literal string { @code
 * "Foo<Bar>"} into { @code "Foo<Bar>"} to prevent { @code "<Bar>"} from
 * being confused with an XML tag. When the resulting XML document is parsed,
 * the parser API will return this text as the original literal string { @code
 * "Foo<Bar>"}.
 *
 * <p>An { @code Escaper} instance is required to be stateless, and safe when
 * used concurrently by multiple threads.
 *
 * <p>Several popular escapers are defined as constants in the class { @link
 * CharEscapers}. To create your own escapers, use { @link
 * CharEscaperBuilder}, or extend { @link CharEscaper} or { @code UnicodeEscaper}.
 */
public interface Escaper {
    /**
     * Returns the escaped form of a given literal string.

```

```

*
* <p>Note that this method may treat input characters differently depending on
* the specific escaper implementation.
* <ul>
* <li>{ @link UnicodeEscaper } handles
* <a href="http://en.wikipedia.org/wiki/UTF-16">UTF-16</a> correctly,
* including surrogate character pairs. If the input is badly formed the
* escaper should throw { @link IllegalArgumentException }.
* <li>{ @link CharEscaper } handles Java characters independently and does not
* verify the input for well formed characters. A CharEscaper should not be
* used in situations where input is not guaranteed to be restricted to the
* Basic Multilingual Plane (BMP).
* </ul>
*
* @param string the literal string to be escaped
* @return the escaped form of { @code string }
* @throws NullPointerException if { @code string } is null
* @throws IllegalArgumentException if { @code string } contains badly formed
* UTF-16 or cannot be escaped for any other reason
*/
public String escape(String string);

/**
* Returns an { @code Appendable } instance which automatically escapes all
* text appended to it before passing the resulting text to an underlying
* { @code Appendable }.
*
* <p>Note that this method may treat input characters differently depending on
* the specific escaper implementation.
* <ul>
* <li>{ @link UnicodeEscaper } handles
* <a href="http://en.wikipedia.org/wiki/UTF-16">UTF-16</a> correctly,
* including surrogate character pairs. If the input is badly formed the
* escaper should throw { @link IllegalArgumentException }.
* <li>{ @link CharEscaper } handles Java characters independently and does not
* verify the input for well formed characters. A CharEscaper should not be
* used in situations where input is not guaranteed to be restricted to the
* Basic Multilingual Plane (BMP).
* </ul>
*
* @param out the underlying { @code Appendable } to append escaped output to
* @return an { @code Appendable } which passes text to { @code out } after
* escaping it.
*/
public Appendable escape(Appendable out);
}

```

## 6.64 SLF4J API Module 1.7.2

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## 6.65 slf4j-api 1.7.6

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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
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