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1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal
documentation:

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

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and

remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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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by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

highly 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 <ftp://ftp.uu.net/graphics/jpeg/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 full 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). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/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 [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. 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. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://ftp.uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups.

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 with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format

has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 bouncy-castle 1.46

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1.3 commons-configuration 1.8

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1.7 taglibs-standard-spec 1.2.5

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1.9 ecj 3.12.3

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jar/org/intellij/lang/annotations/Identifier.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
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jar/org/intellij/lang/annotations/Language.java
*

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jar/org/intellij/lang/annotations/PrintFormat.java
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jar/org/intellij/lang/annotations/RegExp.java
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jar/org/jetbrains/annotations/Contract.java
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jar/org/jetbrains/annotations/Nls.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/Nullable.java
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jar/org/jetbrains/annotations/TestOnly.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/JdkConstants.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/NotNull.java
*
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jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleRecorder.java
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jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/HistogramLogReader.java
*
```

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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleAllValuesIterator.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-

```

jar/org/HdrHistogram/AbstractHistogramLogReader.java

*

/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-

jar/org/HdrHistogram/LinearIterator.java

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*

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*/

package org.HdrHistogram;

final class Version {

public static final String version="\$VERSION\$";

public static final String build_time="\$BUILD_TIMES\$";

}

Found in path(s):

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java.template

1.12 postgres-sql 42.2.2

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1.13 failureaccess 1.0.1

1.14 javax-ws-rs-api 2.1.1

1.15 j2objc-annotations 1.3

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1.16 commons-beanutils 1.9.4

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1.17 asm-commons 7.1

1.18 asm-tree 7.1

1.19 commons-collections 4.4

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1.20 objenesis 2.6

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1.23 commons-digester 2.1

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1.27 go-humanize 1.0.0

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1.36 go-msgpack 0.5.5

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1.39 dom4j 2.1.3

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 jar/org/dom4j/tree/ElementIterator.java
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jar/org/dom4j/dom/DOMDocumentType.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultDocument.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/ElementModifier.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMAttributeNodeMap.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/XMLResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/xpp/ProxyXmlStartTag.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dtd/AttributeDecl.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentInputSource.java
*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/STAXEventReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXContentHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/SingletonStrategy.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMNamespace.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultDocumentType.java

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*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXModifyException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/dom/DOMDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/AbstractElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/util/UserDataDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/XPPReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/OutputFormat.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/datatype/NamedTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/SingleIterator.java
*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/dom/DOMAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/rule/RuleManager.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/datatype/InvalidSchemaException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/xpath/DefaultNamespaceContext.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/datatype/DatatypeElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/DocumentSource.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/ElementNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/DOMSAXContentHandler.java
*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/dom/DOMElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/JAXPHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/rule/RuleSet.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Branch.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Text.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-

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jar/org/dom4j/io/DOMDocumentResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/datatype/SchemaParser.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/DispatchHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXModifyContentHandler.java
*
/opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/AbstractComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/util/AttributeHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultNamespace.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Element.java
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jar/org/dom4j/DocumentHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXHelper.java

1.40 hashicorp-serf 0.8.5

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1.41 urfave-cli 1.22.1

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1.42 stax 4.2.1

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- *
- /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorDoOnSubscribe.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/exceptions/MissingBackpressureException.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/ScalarSynchronousObservable.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeJoin.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorWithLatestFromMany.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeUsing.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeDoOnEach.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/BufferUntilSubscriber.java
- *
- /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/BlockingOperatorToIterator.java
- * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-

```

jar/rx/internal/operators/OperatorZipIterable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTimestamp.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSerialize.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/package-info.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subjects/UnicastSubject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorMapNotification.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func5.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorZip.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/exceptions/OnCompletedFailedException.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/exceptions/UnsubscribeFailedException.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Function.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorAny.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeDefer.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSequenceEqual.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorScan.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observers/SerializedObserver.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/exceptions/CompositeException.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorDoOnRequest.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func0.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorObserveOn.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/BackpressureDrainManager.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/schedulers/Timestamped.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/schedulers/NewThreadScheduler.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorOnBackpressureBuffer.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/observers/SerializedSubscriber.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action8.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/CompletableOnSubscribeTimeout.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorThrottleFirst.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/subjects/SerializedSubject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorDoOnUnsubscribe.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorTakeUntil.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/exceptions/OnErrorFailedException.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Observer.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeToObservableFuture.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/BlockingOperatorLatest.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorMerge.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/schedulers/Schedulers.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorIgnoreElements.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/NotificationLite.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/subscriptions/SequentialSubscription.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action7.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeRange.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/BlockingOperatorNext.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/subjects/TestSubject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/observables/SyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func6.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/observables/BlockingObservable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-

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jar/rx/observers/Subscribers.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorGroupBy.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTakeWhile.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observables/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeToMap.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subscriptions/MultipleAssignmentSubscription.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subjects/PublishSubject.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action0.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Notification.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTimeoutBase.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func2.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observers/TestSubscriber.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CachedObservable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subjects/BehaviorSubject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeSingle.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeRedo.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action5.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorMaterialize.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observers/TestObserver.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subscriptions/CompositeSubscription.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorUnsubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/subjects/Subject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeFromArray.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/SubscriptionList.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subscriptions/BooleanSubscription.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/plugins/RxJavaObservableExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Scheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/exceptions/OnErrorNotImplementedException.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeGroupJoin.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/plugins/RxJavaErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func4.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func9.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorElementAt.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Subscription.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observables/ConnectableObservable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTimeInterval.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/SingleOnSubscribeMap.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorDematerialize.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/SleepingAction.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTakeUntilPredicate.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeFromIterable.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action4.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Completable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/exceptions/Exceptions.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorAsObservable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/ActionN.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subscriptions/Subscriptions.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/schedulers/package-
info.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSkip.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTimeout.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observers/SafeSubscriber.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subscriptions/RefCountSubscription.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeFilter.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorDelay.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/schedulers/ImmediateScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/IndexedRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/BlockingOperatorToFuture.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTakeLast.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorCast.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/RxRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSwitchIfEmpty.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action2.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subscriptions/SerialSubscription.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Subscriber.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/CachedThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorToObservableList.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/EventLoopsScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action9.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/plugins/RxJavaPlugins.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func7.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CompletableOnSubscribeMerge.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTake.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/schedulers/TestScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-

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jar/rx/internal/operators/SingleDoOnEvent.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/ImmediateScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSkipLastTimed.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/schedulers/TrampolineScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func1.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/FuncN.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/BlockingOperatorMostRecent.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subjects/AsyncSubject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorReplay.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Func8.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/exceptions/OnErrorThrowable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSkipLast.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSkipWhile.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeMap.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/observers/Observers.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/subjects/ReplaySubject.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeAutoConnect.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action3.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTimeoutWithSelector.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/schedulers/TimeInterval.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/TrampolineScheduler.java

```



```
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/GenericScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Producer.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeAmb.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTakeLastTimed.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Action1.java
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/atomic/SpSCExactAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
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* Inspired from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>
*/

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/annotations/Experimental.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeCombineLatest.java

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* Modified from <http://www.javacodegeeks.com/2013/08/simple-and-lightweight-pool-implementation.html>

*/

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/ObjectPool.java

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*/

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/SpScLinkedQueue.java

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*/

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/SpSCArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/package-info.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java

*

*/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/ActionObserver.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/EmptyObservableHolder.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/ObserverSubscriber.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/observables/package-info.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/singles/package-info.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/plugins/RxJavaCompletableExecutionHook.java

*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/schedulers/SchedulerWhen.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/subjects/package-
 info.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/observers/AsyncCompletableSubscriber.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/util/ActionNotificationObserver.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/exceptions/AssemblyStackTraceException.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/NeverObservableHolder.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/annotations/package-
 info.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/OnSubscribeDetach.java
 *
 /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/AsyncEmitter.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/util/ActionSubscriber.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/OnSubscribeOnAssembly.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/plugins/RxJavaSingleExecutionHook.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/BackpressureOverflow.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/util/InternalObservableUtils.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/OnSubscribeFlattenIterable.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/observers/package-
 info.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java
 *
 /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/OnSubscribeFromEmitter.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/subscriptions/Unsubscribed.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/plugins/RxJavaHooks.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/internal/operators/OnSubscribeLift.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
 jar/rx/observers/SafeCompletableSubscriber.java
 * /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/subscriptions/package-

info.java

```
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-  
jar/rx/internal/operators/OnSubscribeThrow.java  
*
```

```
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/exceptions/package-  
info.java
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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-  
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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/CompletableEmitter.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/CompletableSubscriber.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/MpmcArrayQueue.java

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This package contains code that relies on `sun.misc.Unsafe`. Before using it you **MUST** assert `UnsafeAccess.isUnsafeAvailable() == true`

Much of the code in this package comes from or is inspired by the JCTools project:
<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/README.md
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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java>
*/

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/ConcurrentSequencedCircularArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/Observable.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/UtilityFunctions.java

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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MpscLinkedQueue.java>

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/MpscLinkedQueue.java

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This package "rx.internal.operators" is for internal implementation details and can change at any time.

It is excluded from the public Javadocs (<http://netflix.github.io/RxJava/javadoc/>) and should not be relied upon by any code.

In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/README.md

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*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/SpmcArrayQueue.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/SynchronizedQueue.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/atomic/SpscLinkedListArrayQueue.java

*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeDelaySubscription.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/PlatformDependent.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorBufferWithSize.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorDelayWithSelector.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeRefCount.java

*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorBufferWithSingleObservable.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorSwitch.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/RxThreadFactory.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorWithLatestFrom.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorOnBackpressureLatest.java

*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-

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jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSkipUntil.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorTakeTimed.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorMapPair.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/functions/Actions.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorSampleWithTime.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorWindowWithSize.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorDistinct.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorMulticast.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorEagerConcatMap.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeSkipTimed.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/ScheduledAction.java
*
/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-

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jar/rx/internal/operators/OperatorPublish.java

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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/observables/AsyncOnSubscribe.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/SingleDoAfterTerminate.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/BlockingUtils.java

*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/SingleSubscriber.java

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/singles/BlockingSingle.java

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- * This plugin class provides 2 ways to customize {@link Scheduler} functionality
- * 1. You may redefine entire schedulers, if you so choose. To do so, override
- * the 3 methods that return Scheduler (io(), computation(), newThread()).
- * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The
- system-
- * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
- * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
- * modify Scheduler functionality without redefining Schedulers wholesale.
- *
- * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
- * <p>
- * See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
- * <a
- href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins.
- */

Found in path(s):

*/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/plugins/RxJavaSchedulersHook.java

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* This mechanism for getting UNSAFE originally from:

*

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* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/util/UnsafeAccess.java>

*/

Found

in path(s):

*/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/UnsafeAccess.java

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 * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/atomic/SpScUnboundedAtomicArrayQueue.java
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/atomic/SpScUnboundedAtomicArrayQueue.java
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 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/ScalarSynchronousSingle.java
```

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 * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/QueueProgressIndicators.java
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/unsafe/QueueProgressIndicators.java
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* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/operators/OnSubscribeToMultimap.java

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* Originally from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/annotations/Beta.java

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/SuppressAnimalSniffer.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/DeferredScalarSubscriber.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeReduce.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/util/ExceptionsUtils.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribePublishMulticast.java
*

/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeCollect.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/SingleOperatorZip.java
* /opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-
jar/rx/internal/operators/OnSubscribeConcatMap.java

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*/opt/ws_local/PERMITS_SQL/1073278406_1596509552.18/0/rxjava-1-2-0-sources-jar/rx/internal/util/unsafe/Pow2.java

1.44 go-md2man 2.0.0

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1.45 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.46 disruptor 3.3.11

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1.47 jctools-core 3.1.0

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xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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```

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```

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    </dependency>
```

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      <artifactId>guava-testlib</artifactId>
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      <scope>test</scope>
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</configuration>
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</additionalOptions>
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</configuration>
<executions>
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    <goals>
      <goal>jar</goal>
    </goals>
  </execution>
</executions>
</plugin>
</plugins>
</build>

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  <repository>
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  </repository>
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<inceptionYear>2013</inceptionYear>

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License, Version 2.0</name>
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    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>

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</developer>
<developer>
  <url>https://github.com/franz1981</url>
</developer>
</developers>

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Found

in path(s):

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No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

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jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
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jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpMCAtomicArrayQueue.java
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jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpSCUnboundedXaddArrayQueue.java
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jar/org/jctools/maps/AbstractEntry.java
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jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

1.48 agentx-levenshtein 1.2.3

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1.49 httpcomponents-client 4.5.13

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1.51 pyasn1 0.4.8

1.51.1 Available under license :

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-

```

0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_encoder.py

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ASN.1 library for Python

[!PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[!Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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blue.svg)](<https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt>)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

- Generic implementation of ASN.1 types (X.208)
- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.7
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house',
 Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
```



```

>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
'''

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If

something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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.. _license:

License

=====

```
.. include:: ../../LICENSE.rst
```

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ASN.1 library for Python

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```
.. toctree::
```

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```

Abstract Syntax Notation One (ASN.1

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::
  :maxdepth: 2
```

```
/pyasn1/contents
```

Use case

```
.. toctree::
  :maxdepth: 2
```

```
/example-use-case
```

Download & Install

```
.. toctree::
  :maxdepth: 2
```

```
/download
```

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..
```

```
toctree::
  :maxdepth: 1
```

```
/changelog
```

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```
.. toctree::
  :maxdepth: 2
```

```
/license
```

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`_`
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`_` at GitHub.
Alternatively, you could ask for help at
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`_`
or search
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`_`
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`_` by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- * `ITU standards`
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- * `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.52 docutils 0.16

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left CNRI to work with commercial software developers, it became clear that the ability to use Python with software available under the GNU Public License (GPL) was very desirable.

CNRI and the Free Software

Foundation (FSF) interacted to develop enabling wording changes to the Python license. Python 1.6.1 is essentially the same as Python 1.6, with a few minor bug fixes, and with a different license that enables later versions to be GPL-compatible. Python 2.1 is a derivative work of Python 1.6.1, as well as of Python 2.0.

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```
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1.54 json-java 20170516

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1.55 mnuralp-fileutils 0.5.0

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1.56 httpcomponents-core 4.4.13

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1.57 commons-lang3 2.6

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1.58 common 1.0.0-beta.2

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1.60 commons-logging 1.2

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
*

/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.61 isorelax 20090621

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```
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 * @(#) $Id: IslandSchemaReader.java,v 1.4 2001/11/01 00:11:45 kkawa Exp $
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Found in path(s):

* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-jar/org/iso_relax/dispatcher/IslandSchemaReader.java

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```
/*
 * @(#) $Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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jar/org/iso_relax/dispatcher/impl/IgnoredSchema.java

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* @(#) \$Id: AttributesDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp \$

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jar/org/iso_relax/dispatcher/impl/DispatcherImpl.java

1.62 commons-codec 1.11

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Found in path(s):

```

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/MultiArrayType.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/StackMapTable.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Loader.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/ClassMetaobject.java

```

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AccessFlag.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ClassFilePrinter.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyFactory.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClassType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/NoSuchClassError.java

```

```

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewConstructor.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/CodeGen.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/SubroutineScanner.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMember.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/IntQueue.java

```

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPool.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/ExprEditor.java
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.66 jakarta-validation-api 2.0.2

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jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/ValidationTarget.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/UnwrapByDefault.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NegativeOrZero.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintViolation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ValidateUnwrappedValue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/ValidationProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ElementKind.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ExtractedValue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ConstructorDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java
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*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintViolationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/ValidatorFactory.java
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jar/javax/validation/metadata/ContainerDescriptor.java
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jar/javax/validation/constraints/NotNull.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/GroupSequence.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorFactory.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/spi/BootstrapState.java
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jar/javax/validation/constraints/Email.java
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jar/javax/validation/ConstraintDeclarationException.java
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jar/javax/validation/metadata/PropertyDescriptor.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableType.java
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jar/javax/validation/constraints/Future.java
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jar/javax/validation/constraints/DecimalMax.java
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jar/javax/validation/constraints/Positive.java
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jar/javax/validation/spi/ConfigurationState.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
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jar/javax/validation/constraints/Past.java
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```

1.67 asm-util 7.1

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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
*
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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/ASMifiable.java

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/opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TextifierSupport.java

1.68 asm 7.1

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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Frame.java
*
/opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodVisitor.java
*
/opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
jar/org/objectweb/asm/signature/SignatureWriter.java
*
/opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
jar/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ByteVector.java
*
/opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Opcodes.java
```

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1.69 asm-analysis 7.1

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jar/org/objectweb/asm/tree/analysis/package.html

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/**  
 * Constructs a new {@link BasicInterpreter} for the latest ASM API version. Subclasses must  
 * not use this constructor</i>. Instead, they must use the {@link #BasicInterpreter(int)}  
 * version.  
 */
```

Found in path(s):

* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java

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/**
 * Constructs a new { @link SourceInterpreter } for the latest ASM API version. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the { @link #SourceInterpreter(int) }
 * version.
 */
```

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```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
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```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
```

```
*
/opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Frame.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
```

```
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
*
/opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
```

1.70 joda-time 2.8.1

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1.71 postgresql-jdbc 42.2.2

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1.72 wsdl4j 1.6.3

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1.76 model 2.6.1

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1.85 gorilla 1.8.0

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1.86 go-units 0.4.0

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procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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fields:

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## 1.101 jaxb-core 2.3.5

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jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/cache/CacheBuilder.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/io/ByteArrayDataOutput.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/io/ByteArrayDataInput.java  
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jar/com/google/common/base/MoreObjects.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/eventbus/SubscriberRegistry.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/Quantiles.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
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jar/com/google/common/primitives/Platform.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/Internal.java

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jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/LongAdder.java
```

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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap
class.
*/
```

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```
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jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
*
 /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/StandardMutableValueGraph.java
*
 /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/AbstractValueGraph.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/MapIteratorCache.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/GraphBuilder.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
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jar/com/google/common/graph/MutableValueGraph.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/StandardValueGraph.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/StandardMutableGraph.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/UndirectedGraphConnections.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/CollectCollectors.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/NetworkConnections.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/MoreCollectors.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java  
\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/StandardNetwork.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java  
\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/Bytes.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Joiner.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/Shorts.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Stopwatch.java

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- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ComputationException.java
- \*
- /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ComparisonChain.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/DiscreteDomain.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingTable.java
- \*
- /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableAsList.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TableCollectors.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ArrayTable.java

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jar/com/google/common/hash/package-info.java

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/\*\*

\* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/IntsMethodsForWeb.java

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/**
* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular
* version.
*/
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Found in path(s):

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SortedMultiset.java
```

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SortedMultisets.java
```

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/**
* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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*/
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```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableMap.java
```

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
```

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/IndexedImmutableSet.java
```

```
/*
```

```
/* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java
```

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```
*/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java
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 */
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```
/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Defaults.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/EnumMultiset.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionList.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/package-info.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/CountingInputStream.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/DeadEvent.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Objects.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Suppliers.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-

jar/com/google/common/base/Function.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/AbstractIterator.java  
\*

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jar/com/google/common/base/Predicates.java  
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jar/com/google/common/collect/Interners.java

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jar/com/google/common/collect/ImmutableSortedAsList.java

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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/ImmutableIntArray.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/ImmutableLongArray.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/ImmutableDoubleArray.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingLock.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/AbstractHashFunction.java  
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jar/com/google/common/io/AppendableWriter.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/escape/CharEscaper.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/Futures.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
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*/
/**
 * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
 * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type {@code Comparable}
 * to use {@link
 * ImmutableSortedMap#of(Comparable, Object)}.
 */
```

Found in path(s):

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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Found in path(s):

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Crc32cHashFunction.java
```

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/Cache.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/package-info.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/RemovalCause.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/CacheLoader.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/RemovalListener.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/AbstractStreamingHasher.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/Funnel.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-

jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/Enums.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/AbstractScheduledService.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/package-info.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/IntMath.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/UnsignedLong.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/BloomFilter.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/MathPreconditions.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/FutureCallback.java

```

* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/HashingOutputStream.java
*
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
*
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
*

```

```
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
*
```

```
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/Types.java
```

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```
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```

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*
```

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```

```
*/
```

```
/**
```

```
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
```

```
*
```

```
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
wouldn't recognize
```

```
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/Partially.java

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\*/

Found in path(s):

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/BaseGraph.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ClosingFuture.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/AbstractBaseGraph.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/Traverser.java

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Found in path(s):

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/Graph.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TopKSelector.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/MutableGraph.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/Graphs.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/Network.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in

\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

\* following header:

\*

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Found in path(s):

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableMapEntrySet.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableCollection.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/Table.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/EmptyImmutableListMultimap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/RegularImmutableBiMap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/SingletonImmutableBiMap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableBiMap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableMapKeySet.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableMap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/RegularImmutableMap.java



\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/StandardTable.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/TreeBasedTable.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CollectPreconditions.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Tables.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Range.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java

\*

/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Serialization.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Collections2.java

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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Platform.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableListMultimap.java

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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java

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jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/ImmutableSupplier.java  
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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableSet.java  
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jar/com/google/common/io/Java8Compatibility.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/base/Java8Compatibility.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/math/BigDecimalMath.java  
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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-

jar/com/google/common/math/ToDoubleRounder.java  
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jar/com/google/common/hash/Java8Compatibility.java  
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jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/TypeVisitor.java
*
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
*
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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jar/com/google/common/base/Utf8.java

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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/ElementTypesAreNonnullByDefault.java

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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java

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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/ParametricNullness.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/ParametricNullness.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java  
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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/math/ParametricNullness.java  
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- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/NullnessCasts.java

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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/Ascii.java  
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jar/com/google/common/io/MoreFiles.java
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/MultimapBuilder.java
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jar/com/google/common/collect/Synchronized.java  
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jar/com/google/common/collect/MutableClassToInstanceMap.java  
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jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-

jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableList.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/TreeMultiset.java  
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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
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jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/AbstractSortedSetMultimap.java  
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jar/com/google/common/collect/AbstractListMultimap.java  
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jar/com/google/common/collect/NaturalOrdering.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/LinkedListMultimap.java  
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jar/com/google/common/collect/AbstractIterator.java  
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jar/com/google/common/collect/EnumBiMap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/EnumHashMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractMultiset.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingListIterator.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ListMultimap.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/NullsLastOrdering.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/HashMultiset.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/SetMultimap.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingMultiset.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingObject.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/LinkedHashMultiset.java  
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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMap.java

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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/LittleEndianByteArray.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/Platform.java  
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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/CombinedFuture.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/io/ReaderInputStream.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/hash/MacHashFunction.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/AggregateFutureState.java  
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\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/LongAddable.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/BaseEncoding.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/base/StandardSystemProperty.java

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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ByteSource.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/ClassPath.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/cache/LongAddables.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/hash/LongAddable.java

\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

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/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/ByteSink.java

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jar/com/google/common/html/package-info.java
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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jar/com/google/common/hash/ChecksumHashFunction.java
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/xml/package-
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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jar/com/google/common/math/Stats.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
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jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
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jar/com/google/common/collect/FilteredKeyMultimap.java  
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jar/com/google/common/collect/CollectSpliterators.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/graph/package-info.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
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- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
- \*
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/CompactHashSet.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
- \* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-

jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/RangeMap.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/FilteredMultimap.java  
\*  
/opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1208929711\_1632961079.01/0/guava-31-0-1-jre-sources-  
jar/com/google/common/collect/CompactHashMap.java

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/FilteredEntryMultimap.java
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express
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* the License.
*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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Found in path(s):

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/CommonPattern.java
```

```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/CommonMatcher.java
*
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/base/JdkPattern.java
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```
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/RowSortedTable.java
*
/opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
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```

```
/*
```

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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

```

Found in path(s):

```

* /opt/cola/permits/1208929711_1632961079.01/0/guava-31-0-1-jre-sources-
jar/com/google/common/collect/ObjectArrays.java

```

## 1.103 json-smart 2.3

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\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/DefaultMapper.java

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\*/

Found in path(s):

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONStyle.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserInputStream.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParser.java

\*

/\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserMemory.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/CompressorMapper.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONUtil.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONStreamAwareEx.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/ParseException.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONValue.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/FakeMapper.java

\* /opt/cola/permits/1209129301\_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONAwareEx.java

```

* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/BeansMapper.java
*
/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/CollectionMapper.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/DefaultMapperOrdered.java
*
/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/JsonReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-
jar/net/minidev/json/parser/JSONParserReader.java

```

## 1.104 luajit 2.1.0.beta3

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=====  
 LuaJIT -- a Just-In-Time Compiler for Lua. <http://luajit.org/>

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# 1.106 opencontainers-go-digest 1.0.0

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## 1.109 apparentlymart-go-cidr 1.0.1

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## 1.110 go-capability 0.0.0-20200815063812-42c35b437635

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# 1.114 gogo-googleapis 1.4.1

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Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface
```

```
//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header
```

```
type Empty interface{ }
```

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//

// Code generated by MockGen. DO NOT EDIT.
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// Package empty_interface is a generated GoMock package.
package empty_interface

import (
 gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
{
 return m.recorder
}

```

## 1.120 blackfriday 2.0.1

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# 1.121 grpc-ecosystem-go-grpc-middleware

## 1.3.0

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# 1.122 docker-go-events 0.0.0-20190806004212-e31b211e4f1c

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## 1.123 xxhash 2.1.2

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## 1.124 go-openapi-swag 0.19.14

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## 1.126 containerd-typeurl 1.0.2

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## 1.127 sanitized-anchor-name 1.0.0

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## 1.128 x-sync 0.0.0-20210220032951-036812b2e83c

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# 1.129 x-time-rate 0.0.0-20210723032227-1f47c861a9ac

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# 1.130 sean-seed 0.0.0-20170313163322-e2103e2c3529

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# 1.132 afero 1.0.5

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.139 docker-go-metrics 0.0.1

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## 1.143 go-systemd 22.3.2

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## 1.145 easyjson 0.7.6

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## 1.146 dimchansky-utfbom 1.1.1

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tomb - support for clean goroutine termination in Go.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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## 1.155 felixge-httpsnoop 1.0.2

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## 1.156 containerd-fifo 1.0.0

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# 1.158 jackson 2.14.1

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# Jackson JSON processor

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## 1.159 uniseg 0.2.0

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## 1.160 go.etcd.io-bbolt 1.3.6

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# 1.161 json-iterator-go 1.1.12

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# 1.162 modern-go-reflect2 1.0.2

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.175 jersey-bean-validation 2.35

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- \* /opt/cola/permits/1240682130\_1639307569.52/0/archaius2-api-2-3-16-sources-jar/com/netflix/archaius/api/ConfigLoader.java
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```
* /opt/cola/permits/1240682130_1639307569.52/0/archaius2-api-2-3-16-sources-
jar/com/netflix/archaius/api/annotations/Configuration.java
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```
* /opt/cola/permits/1240682128_1639307567.4/0/archaius2-core-2-3-16-sources-
jar/com/netflix/archaius/cascade/ConcatCascadeStrategy.java
* /opt/cola/permits/1240682128_1639307567.4/0/archaius2-core-2-3-16-sources-
```

jar/com/netflix/archaius/ConfigMapper.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/DefaultCompositeConfig.java  
\*  
/opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/readers/PropertiesConfigReader.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/exceptions/MappingException.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/property/DefaultPropertyListener.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/EmptyConfig.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/property/DefaultPropertyContainer.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/exceptions/ParseException.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/visitor/PrintStreamVisitor.java  
\*  
/opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/SystemConfig.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/DefaultSettableConfig.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/property/MethodInvoker.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/cascade/NoCascadeStrategy.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/readers/JDCCConfigReader.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/readers/URLConfigReader.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/DefaultDecoder.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/AbstractConfig.java  
\*  
/opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/MapConfig.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/util/ShardedReentrantLock.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/polling/FixedPollingStrategy.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/EnvironmentConfig.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/config/PollingDynamicConfig.java  
\* /opt/cola/permits/1240682128\_1639307567.4/0/archaius2-core-2-3-16-sources-  
jar/com/netflix/archaius/DefaultConfigLoader.java

```
* /opt/cola/permits/1240682128_1639307567.4/0/archaius2-core-2-3-16-sources-
jar/com/netflix/archaius/config/PrefixableViewConfig.java
* /opt/cola/permits/1240682128_1639307567.4/0/archaius2-core-2-3-16-sources-
jar/com/netflix/archaius/config/polling/ManualPollingStrategy.java
*
/opt/cola/permits/1240682128_1639307567.4/0/archaius2-core-2-3-16-sources-
jar/com/netflix/archaius/util/Futures.java
* /opt/cola/permits/1240682128_1639307567.4/0/archaius2-core-2-3-16-sources-
jar/com/netflix/archaius/interpolate/CommonsStrInterpolator.java
```

# 1.182 utils 0.0.0-20210930125809- cb0fa318a74b

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## 1.184 x-net 0.0.0-20211216030914-fe4d6282115f

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## 1.185 kubernetes-apimachinery 0.22.4

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**1.188 x-crypto 0.0.0-20211202192323-5770296d904e**



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# 1.195 otel-sdk 1.3.0

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*/
(By Douglas Crockford <douglas@crockford.com>)
```

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in t\_html\_generator.h

\* Bootstrap v2.0.3

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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lib/erl/src/Makefile.am

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For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4  
components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

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 json_parse.js
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```

\*/  
(By Douglas Crockford <douglas@crockford.com>)

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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```

-----  
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in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\* Designed and built with all the love in the world @twitter by @mdo and @fat.

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For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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```
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```

-----  
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```
/*
 json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
```

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-----  
For lib/py/compat/win32/stdint.h

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

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Codegen template

in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\*

\* Designed and built with all the love in the world @twitter by @mdo and @fat.

-----  
For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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# 1.201 otel-trace 1.3.0

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```

```
*/
(By Douglas Crockford <douglas@crockford.com>)
```

```

For lib/cpp/src/thrift/windows/SocketPair.cpp
```

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*/
```

```

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```

```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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```

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Codegen template

in t\_html\_generator.h

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- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
 jar/com/sun/msv/datatype/regexp/RegexParser.java

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jar/com/sun/msv/datatype/regexp/RangeToken.java

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\*/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message.properties  
\*/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message\_ja.properties  
\*/opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-  
jar/com/sun/msv/datatype/regexp/message\_fr.properties

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- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/BMPattern.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/RegularExpression.java
- \*
- /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Op.java
- \* /opt/cola/permits/1257217844\_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParseException.java

```
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Token.java
```

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```
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Messages.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Messages_ja.properties
```

## 1.203 byte-buddy 1.10.13

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- \* /opt/cola/permits/1257532423\_1642861239.0/0/accessors-smart-1-2-sources-jar/net/minidev/asm/ASMUtil.java
- \* /opt/cola/permits/1257532423\_1642861239.0/0/accessors-smart-1-2-sources-jar/net/minidev/asm/BeansAccess.java
- \*
- \*/opt/cola/permits/1257532423\_1642861239.0/0/accessors-smart-1-2-sources-jar/net/minidev/asm/Accessor.java

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```
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java
*
/opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/GuardedBy.java
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jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
*
/opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
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```
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jar/com/google/errorprone/annotations/CheckReturnValue.java
```

```
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/DoNotCall.java
*
/opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
*
/opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/Var.java
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\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/FormatMethod.java  
\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/CompatibleWith.java  
\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/FormatString.java

\*  
/opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/MustBeClosed.java  
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\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/InlineMe.java

# 1.208 structured-merge-diff 4.2.1

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# 1.210 sanathkr-go-yaml 0.0.0-20170819195128-ed9d249f429b

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## 1.212 cnabio-cnab-go 0.10.0-beta1

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## 1.217 tre 1.2.1

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## 1.220 sys-mountinfo 0.5.0

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## 1.224 grpc-go 1.44.0

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Gocheck - A rich testing framework for Go

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## 1.228 proto-otlp 0.12.0

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-----  
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components:

```
Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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modification, are permitted in any medium without royalty provided
the copyright notice and this notice are preserved.
```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
 Public Domain.
 NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
 * This code is Free Software. It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
 * relieved from all responsibilities for any use for any purpose, and (2)
 * this copyright notice must
 * be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
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// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//
//
```

-----  
Codegen template

in t\_html\_generator.h

```
* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

-----  
For t\_cl\_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

-----

# 1.230 google-go-cmp 0.5.7

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-----

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```
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#
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```

-----  
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```
/*
 json_parse.js
 2015-05-02
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

-----  
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in t\_html\_generator.h

```
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*
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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

-----  
For t\_cl\_generator.cc

```
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```

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lib/erl/src/Makefile.am

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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
 Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
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*/
```

-----  
For lib/py/compat/win32/stdint.h

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

-----

Codegen template  
in t\_html\_generator.h

```
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*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

-----

For t\_cl\_generator.cc



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# 1.233 otel-exporters-otlp-otlptrace-otlptracehttp 1.4.1

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lib/erl/src/Makefile.am

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-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
```

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-----  
For lib/py/compat/win32/stdint.h

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

-----  
Codegen template

in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\*

\* Designed and built with all the love in the world @twitter by @mdo and @fat.

-----  
For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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## 1.234 go-logr-stdr 1.2.2

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# 1.235 otel-exporters-otlp-otlptrace 1.4.1

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-----  
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```
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
 Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
 * This code is Free Software. It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
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 * be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
```

```
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//
```

-----

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```
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*/
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```

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```
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```

\*/

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
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//
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```

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# 1.238 otel-exporters-otlp-internal-retry 1.4.1

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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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```
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*/
(By Douglas Crockford <douglas@crockford.com>)
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```
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*/
```

-----  
For lib/py/compat/win32/stdint.h



```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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# 1.241 go-uber-org-multierr 1.8.0

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# 1.243 contrib-instrumentation-net-http- httptrace-otelhttptrace 0.29.0

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```

File fuse\_kernel.go:

// Derived from FUSE's fuse\_kernel.h

/\*

This file defines the kernel interface of FUSE

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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```

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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# 1.247 kubernetes-client 0.22.5

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# 1.248 kubernetes-apimachinery 0.22.5

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# 1.249 kubernetes-api 0.22.5

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## 1.250 shibumi-go-pathspect 1.3.0

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## 1.253 py3-retrying 1.3.3-r3

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# 1.254 gdbm 1.23-r0

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## 1.257 godbus 5.1.0

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# 1.261 x-crypto 0.0.0-20220315160706-3147a52a75dd

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# 1.266 goprotobuf 1.5.2

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# 1.267 golang-protobuf-extensions 1.0.2-0.20181231171920-c182affec369

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## 1.268 blang-semver 3.5.1+incompatible

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# 1.269 logrus 1.8.1

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## 1.272 google-uuid 1.2.0

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

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## 1.273 go-toml 1.9.3

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

/\*

json\_parse.js

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\*/

(By Douglas Crockford <douglas@crockford.com>)

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

/\* socketpair.c

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-----  
For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio

// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

//

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////////////////////////////////////
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```

Codegen template
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* Designed and built with all the love in the world @twitter by @mdo and @fat.
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localtime.go, localtime\_test.go:

### Originals:

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### Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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cd1

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# 1.281 miekg-pkcs11 1.1.1

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## 1.283 intel-goresctrl 0.2.0

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Go support for Protocol Buffers - Google's data interchange format

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## 1.285 gmp 6.2.1-r2

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builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

src/pcf/README

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#

src/gzip/adler32.c

src/gzip/infblock.c

src/gzip/infblock.h

src/gzip/infcodes.c

src/gzip/infcodes.h

src/gzip/inffixed.h

src/gzip/inflate.c

src/gzip/inftrees.c

src/gzip/inftrees.h

src/gzip/infutil.c

src/gzip/infutil.h

src/gzip/zconf.h

src/gzip/zlib.h

src/gzip/zutil.c

src/gzip/zutil.h

#

src/tools/apinames.c

src/tools/ftrandom/ftrandom.c

#

subprojects/dlg

#

#

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```

Found in path(s):

```
* /opt/cola/permits/1337382426_1654193578.9690335/0/grpc-protobuf-1-28-0-sources-1-
jar/io/grpc/protobuf/StatusProto.java
* /opt/cola/permits/1337382426_1654193578.9690335/0/grpc-protobuf-1-28-0-sources-1-
```

jar/io/grpc/protobuf/package-info.java  
\* /opt/cola/permits/1337382426\_1654193578.9690335/0/grpc-protobuf-1-28-0-sources-1-  
jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java

\*  
/opt/cola/permits/1337382426\_1654193578.9690335/0/grpc-protobuf-1-28-0-sources-1-  
jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java

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# 1.290 golang 1.17.11

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# 1.291 containerd 1.6.2

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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```

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Rob Pike <r@golang.org>
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```

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Support for streaming Protocol Buffer messages for the Go language (golang).

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## 1.292 compose-spec-compose-go 1.2.7

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## 1.293 docker-buildx 0.8.1

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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Go support for Protocol Buffers - Google's data interchange format

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# 1.294 grpc-go 1.47.0

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# 1.295 go-openapi-jsonreference 0.20.0

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## 1.298 runc 1.1.2

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## 1.300 felixge-httpsnoop 1.0.3

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## 1.302 feign-okhttp 10.2.0

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Found in path(s):

\* /opt/cola/permits/1346580795\_1655466437.3407/0/feign-okhttp-10-2-0-sources-1-jar/META-INF/maven/io.github.openfeign/feign-okhttp/pom.xml

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\* /opt/cola/permits/1346580795\_1655466437.3407/0/feign-okhttp-10-2-0-sources-1-jar/feign-okhttp/OkHttpClient.java

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# 1.304 activation-api 1.2.2

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# 1.305 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

\* Based on libdl (dlfcn.c/dlfcn.h) which is  
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From strings/apr\_strnatcmp.c,  
include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From  
strings/apr\_snprintf.c:

- \*
- \* cvt - IEEE floating point formatting routines.
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- \*

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## 1.308 mitchellh-copystructure 1.2.0

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## 1.309 perl 5.36.0-r0

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\*/opt/cola/permits/1356288517\_1671614261.043827/0/spvm-0-9669-tar-gz/SPVM-0.9669/lib/SPVM/Builder/include/spvm\_yacc.h

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---

abstract: 'SPVM Language'

author:

- 'Yuki Kimoto<kimoto.yuki@gmail.com>'

build\_requires:

ExtUtils::MakeMaker: '0'

Test::More: '0.92'

configure\_requires:

ExtUtils::MakeMaker: '0'

dynamic\_config: 1

generated\_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: SPVM

no\_index:

directory:

- t

- inc

requires:

ExtUtils::CBuilder: '0.280236'

Time::Piece: '1.12'

resources:

repository: <https://github.com/yuki-kimoto/SPVM.git>

version: '0.9669'

x\_serialization\_backend: 'CPAN::Meta::YAML version 0.018'

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=encoding utf8

=head1 Name

SPVM - SPVM Language

=head1 Caution

C<SPVM> is not yet 1.0 release. It is quite often changed without warnings until I feel that the implementation is good enough.

=head1 Usage

Write a SPVM Module:

```
lib/SPVM/MyMath.spvm
class MyMath {
 static method sum : int ($nums : int[]) {

 my $total = 0;
 for (my $i = 0; $i < @$nums; $i++) {
 $total += $nums->[$i];
 }

 return $total;
 }
}
```

Call the SPVM method from Perl:

```
sum.pl
use strict;
use warnings;
use FindBin;
use lib "$FindBin::Bin/lib";

use SPVM 'MyMath';

Call method
my $total = SPVM::MyMath->sum([3, 6, 8, 9]);

print "$total\n";
```

=head1 Description

B<SPVM> (Static Perl Virtual Machine) is a perl-ish static typed programming language. SPVM provides fast calculation, fast array operations, easy C/C++ binding, and creating executable files.

=head1 Document

SPVM documents.

=head2

Tutorial



SPVM Tutorial.

=over 2

=item \* L<Tutorial|SPVM::Document::Tutorial>

=back

=head2 Language Specification

SPVM Language Specification.

=over 2

=item \* L<Language Specification|SPVM::Document::Language>

=back

=head2 Standard Modules

SPVM Standard Modules.

=over 2

=item \* L<Standard Modules|SPVM::Document::Modules>

=back

=head2 Exchange APIs

SPVM Exchange APIs is functions to convert between Perl data structures and SPVM data structures.

=over 2

=item \* L<ExchangeAPI|SPVM::Document::ExchangeAPI>

=back

=head2 Native Module

The native module is the module that is implemented by native language such as C<C language> or C<C++>.

=over 2

=item \* L<Native Method|SPVM::Document::NativeModule>

=back

=head2 Native APIs

SPVM native APIs are public APIs that are used in native language sources such as C<C language> or C<C++>.

=over 2

=item \* L<Native APIs|SPVM::Document::NativeAPI>

=back

=head2 Resource

A resource is a L<native module|SPVM::Document::NativeModule> that contains a set of sources and headers of native language such as C<C language> or C<C++>.

=over 2

=item \* L<Resource|SPVM::Document::Resource>

=back

=head2 Creating Executable File

C<spvmcc> is the compiler and linker to create the executable file from SPVM source codes.

=over 2

=item \* L<spvmcc>

=back

=head2 Creating SPVM Distribution

C<spvmdist> is the command to create SPVM distribution.

=over 2

=item \* L<spvmdist>

=back

=head2 Benchmark

SPVM performance benchmarks.

=over 2

=item \* L<Benchmark|SPVM::Document::Benchmark>

=back

=head1 Environment Variables

=head2 SPVM\_BUILD\_DIR

SPVM building directory to build C<precompile> and C<native> methods. If the C<SPVM\_BUILD\_DIR> environment variable is not set, the building of C<precompile> and C<native> methods fails.

B<bash:>

```
export SPVM_BUILD_DIR=~/.spvm_build
```

B<csh:>

```
setenv SPVM_BUILD_DIR ~/.spvm_build
```

=head2 SPVM\_CC\_DEBUG

Print debug messages of L<SPVM::Builder::CC> to stderr.

=head2 SPVM\_CC\_FORCE

Force

the compilation and the link of L<SPVM::Builder::CC>.

=head1 Repository

L<Github|https://github.com/yuki-kimoto/SPVM>

=head1 Bug Report

L<GitHub Issue|https://github.com/yuki-kimoto/SPVM/issues>

=head1 Support

L<Github Discussions|https://github.com/yuki-kimoto/SPVM/discussions>

=head1 Author

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=cut

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Found in path(s):

\* /opt/cola/permits/1356288517\_1671614261.043827/0/spvm-0-9669-tar-gz/SPVM-  
0.9669/lib/SPVM/Builder/src/spvm\_yacc.c

# 1.310 go-compute 1.7.0

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
```

```

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
 Get: []gax.CallOption{ },
 TestIamPermissions: []gax.CallOption{ },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with

```

```

method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
// The internal transport-dependent client.
internalClient internalLicenseCodesClient

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

```

}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts :=
 defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption {
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

```



```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gopic", getVersionClient(), "gax",
 gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil,
 err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
 baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err
:= c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

*// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.*

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }
}

```

```

}

baseUrl,
err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {

```

```

 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
// Copyright 2022 Google LLC
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"

```

```

)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete []gax.CallOption
Get []gax.CallOption
GetIamPolicy []gax.CallOption
Insert []gax.CallOption
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{ },
Get: []gax.CallOption{ },
GetIamPolicy: []gax.CallOption{ },
Insert: []gax.CallOption{ },
List: []gax.CallOption{ },
SetIamPolicy: []gax.CallOption{ },
TestIamPermissions: []gax.CallOption{ },
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//

```

```

LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

```

```

}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or
windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
// The http endpoint to connect to.
endpoint string

```

```

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(),
 opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
 return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{

```



```

internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
}

```

```

}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
}

```

```

op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return
op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {

```

```

 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{ }
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

```

```

}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts
= append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

```

```

}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c:
 c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := unmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

```

```

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess",
fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }
}

```



```

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response
= resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{ AllowPartial: true }
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if
err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST",
baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{ AllowPartial:
 true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
 req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
 append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
 tIamPermissions)], opts...)
 unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context,
 settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 })
}

```

```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 // Calling Next() or InternalFetch() updates this value.
 Response interface{ }

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

```

```

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
 return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

```

```

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)

```

```
if err != nil {
 // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}
```

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```
package compute_test
```

```
import (
```

```
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
```

```
 "google.golang.org/api/iterator"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
)
```

```
func ExampleNewLicensesRESTClient() {
```

```
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
```

```
 // TODO: Handle error.
```

```
 }
```

```
 defer
```

```
 c.Close()
```

```
 // TODO: Use client.
```

```
 _ = c
```

```
}
```

```
func ExampleLicensesClient_Delete() {
```

```
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
```

```

// TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
-
= resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

```

```

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

```

```

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

```

```

err = op.Wait(ctx)
if err != nil {
 // TODO:
 Handle error.
}
}

```

```

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

```

```

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}

```

```

it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
}

```

```
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

## 1.311 fsnotify 1.4.9

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## 1.312 python-setuptools 63.2.0



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# 1.316 seccomp 0.9.2-0.20220502022130-f33da4d89646

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## 1.317 prometheus-procfs 0.8.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.318 cython 0.29.32

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```

```
package compute
```

```

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
 Get: []gax.CallOption{ },
 TestIamPermissions: []gax.CallOption{ },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with

```

```

method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
// The internal transport-dependent client.
internalClient internalLicenseCodesClient

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

```

}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts :=
 defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption {
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

```

```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gopic", getVersionClient(), "gax",
 gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil,
 err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
 baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err
:= c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }
}

```

```

}

baseUrl,
err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {

```



```

 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"

```

```

)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete []gax.CallOption
Get []gax.CallOption
GetIamPolicy []gax.CallOption
Insert []gax.CallOption
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{ },
Get: []gax.CallOption{ },
GetIamPolicy: []gax.CallOption{ },
Insert: []gax.CallOption{ },
List: []gax.CallOption{ },
SetIamPolicy: []gax.CallOption{ },
TestIamPermissions: []gax.CallOption{ },
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//

```

```

LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

```

```

}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or
windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
// The http endpoint to connect to.
endpoint string

```

```

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(),
 opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
 return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{

```

```

internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
}

```

```

}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
}

```

```

op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return
op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpResp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpResp.Body.Close()

 if err = googleapi.CheckResponse(httpResp); err != nil {

```



```

 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{ }
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

```

```

}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts
= append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }
}

```

```

}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c:
 c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := unmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

```

```

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess",
fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }
}

```

```

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response
= resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{ AllowPartial: true }
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if
err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST",
baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{ AllowPartial:
 true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
 req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
 append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
 tIamPermissions)], opts...)
 unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context,
 settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 })
}

```



```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 // Calling Next() or InternalFetch() updates this value.
 Response interface{ }

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

```

```

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
 return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

```

```

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)

```

```
if err != nil {
 // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

```
package compute_test
```

```
import (
```

```
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
```

```
 "google.golang.org/api/iterator"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
)
```

```
func ExampleNewLicensesRESTClient() {
```

```
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
```

```
 // TODO: Handle error.
```

```
 }
```

```
 defer
```

```
 c.Close()
```

```
 // TODO: Use client.
```

```
 _ = c
```

```
}
```

```
func ExampleLicensesClient_Delete() {
```

```
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
```

```

// TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
-
= resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

```

```

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
 // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }

```

```

it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
}

```

```
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

## 1.320 googleapis-enterprise-certificate-proxy

### 0.1.0

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# 1.321 go-colorable 0.1.13

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```

Found in path(s):

```
* /opt/cola/permits/1400352894_1662634453.182292/0/ca-certificates-20220614-tar-bz2/ca-certificates-
20220614/mk-ca-bundle.pl
```

No license file was found, but licenses were detected in source scan.

```
/* c_rehash.c - Create hash symlinks for certificates
* C implementation based on the original Perl and shell versions
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*/
```

Found in path(s):

```
* /opt/cola/permits/1400352894_1662634453.182292/0/ca-certificates-20220614-tar-bz2/ca-certificates-
20220614/c_rehash.c
```

## 1.323 packaging 21.3

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## 1.332 sys-mountinfo 0.6.2

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

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

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



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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

Any

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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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.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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To 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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(This file is under construction.) \*- text -\*

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, [nickc@redhat.com](mailto:nickc@redhat.com) and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete

Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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gfdl(7), fsf-funding(7).

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## 1.336 slf4j 1.7.36

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## 1.338 mpclib 1.2.1-r1

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## 1.347 pkgconf 1.9.3-r0

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# 1.349 moby-sys-signal 0.7.0

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# 1.351 spring-retry 1.3.4

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## 1.352 zlib 1.2.13-r0

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for



Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

# 1.353 apk-tools 2.12.10-r1

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```

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```

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## 1.357 docker-credential-helpers 0.7.0

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## 1.359 aws-aws-sdk-go-v2 1.12.14

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# 1.360 aws-aws-sdk-go-v2 1.12.5

## 1.360.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```



```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

```

```

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.

```

```

//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks in the specified license. Check in a license when it is no longer in use.

```

```

func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
if params == nil {
params = &CheckInLicenseInput{}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {

```

```

return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```



```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata

```

```

{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
name: License Scan

on: [pull_request]

jobs:
licensescan:
name: License Scan
runs-on: ubuntu-latest
strategy:
matrix:
python-version: [3.9]

steps:
- name: Checkout target
uses: actions/checkout@v2
with:
path: sdkbase
ref: ${{ github.base_ref }}
- name: Checkout this ref
uses: actions/checkout@v2
with:
path: new-ref
fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2
with:
repository: nexB/scancode-toolkit
path: scancode-toolkit
fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
uses: actions/setup-python@v2
with:
python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode

```

```

working-directory: ./scancode-toolkit
run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
 are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
 c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.

```

```
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
```

```

// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
..func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

```

```

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```



```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

```

```

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {

```

```

 params = &GetLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists the licenses for your account.

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

```

```

out := result.(*ListLicensesOutput)

```

```

out.ResultMetadata = metadata

```



```

return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 // license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType
```

```

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

```
}
```

# 1.361 aws-aws-sdk-go-v2 1.12.17

## 1.361.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
```

```
...func(*Options)) (*ListReceivedLicensesOutput, error) {
```

```
 if params == nil {
```

```
 params = &ListReceivedLicensesInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
```

```
 c.addOperationListReceivedLicensesMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*ListReceivedLicensesOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type ListReceivedLicensesInput struct {
```

```
 // Filters to scope the results. The following filters are supported:
```

```
 //
```

```
 //
```

```
 *
```

```
 // ProductSKU
```

```
 //
```

```
 // * Status
```

```
 //
```

```
 // * Fingerprint
```

```

//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```



```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks out the specified license for offline use.
```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

```

```

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```
type CheckoutBorrowLicenseInput struct {
```

```

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.

```

```

//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.

```



```

LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Deletes the specified license.
```

```
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
```

```
(*DeleteLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &DeleteLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
```

```
 c.addOperationDeleteLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*DeleteLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type DeleteLicenseInput struct {
```

```

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,

```

```

options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.

```

```

//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

```

```

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options);
 err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {

```



```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

# 1.362 google-api-go-client 0.93.0

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#
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```

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#  
individual or corporate CLA was used.

# Names should be added to this file like so:  
# Name <email address>  
#  
# An entry with two email addresses specifies that the  
# first address should be used in the submit logs and  
# that the second address should be recognized as the  
# same person when interacting with Rietveld.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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|---------|---------|------|-------|-----------------|
|         | from    |      |       | compatible? (1) |

|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes     |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
| 2.2 and above  | 2.1.1     | 2001-now  |            |         |
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## 1.365 popt 1.19-r0

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|---|----|------|------|------|--|-------------|
| 1 | 32 | 7679 | 7648 | 3.7M |  | 8f8378c0-01 |
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|   |      |       |      |      |  |             |
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| 2 | 7680 | 16383 | 8704 | 4.3M |  | 8f8378c0-02 |
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| 5 | 7936 | 12799 | 4864 | 2.4M |  |  |
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```

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

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

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```
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## 1.369 py3-parsing 3.0.9-r0

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## 1.370 proto-otlp 0.19.0



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## 1.371 openssl 3.0.7-r0

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## 1.373 wheel 0.38.4

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```
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```

# 1.376 brotli 1.0.9-r9

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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019  
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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Version 3, 29 June 2007

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# 1.382 ncurses 6.3\_p20221119-r0

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html
```

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## 1.383 py3-pip 22.3.1-r1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore



can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
non-profit organization created specifically to own Python-related

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

|                | from      |           |            | compatible? (1) |
|----------------|-----------|-----------|------------|-----------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2     | 2000      | CNRI       | no              |
| 2.0            | 1.6       | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2)         |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes             |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes             |
| 2.2 and above  | 2.1.1     | 2001-now  |            |                 |
| PSF            |           |           |            | yes             |

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## 1.384 sqlite 3.40.0-r0

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite
** is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
```

\*\* The application is responsible for serializing access to  
 \*\* [database connections] and [prepared statements]. But other mutexes  
 \*\* are enabled so that SQLite will be safe to use in a multi-threaded  
 \*\* environment as long as no two threads attempt to use the same  
 \*\* [database connection] at the same time. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option  
 then  
 \*\* it is not possible to set the Multi-thread [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_MULTITHREAD configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SERIALIZED]] <dt>SQLITE\_CONFIG\_SERIALIZED</dt>  
 \*\* <dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Serialized. In other words, this option enables  
 \*\* all mutexes including the recursive  
 \*\* mutexes on [database connection] and [prepared statement] objects.  
 \*\* In this mode (which is the default when SQLite is compiled with  
 \*\* [SQLITE\_THREADSAFE=1]) the SQLite library will itself serialize access  
 \*\* to [database connections] and [prepared statements] so that the  
 \*\* application is free to use the same [database connection] or the  
 \*\* same [prepared statement] in different threads at the same time.  
 \*\* ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the  
 Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MALLOC option takes a single argument which is  
 \*\* a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The argument specifies  
 \*\* alternative low-level memory allocation routines to be used in place of  
 \*\* the memory allocation routines built into SQLite.)^ ^SQLite makes  
 \*\* its own private copy of the content of the [sqlite3\_mem\_methods] structure  
 \*\* before the [sqlite3\_config()] call returns.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMALLOC option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The [sqlite3\_mem\_methods]  
 \*\* structure is filled with the currently defined memory allocation routines.)^  
 \*\* This option can  
 be used to overload the default memory allocation  
 \*\* routines with a wrapper that simulations memory allocation failure or  
 \*\* tracks memory usage, for example. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SMALL\_MALLOC]] <dt>SQLITE\_CONFIG\_SMALL\_MALLOC</dt>



\*\* <dd> ^The `SQLITE_CONFIG_SMALL_MALLOC` option takes single argument of  
 \*\* type `int`, interpreted as a boolean, which if true provides a hint to  
 \*\* SQLite that it should avoid large memory allocations if possible.  
 \*\* SQLite will run faster if it is free to make large memory allocations,  
 \*\* but some application might prefer to run slower in exchange for  
 \*\* guarantees about memory fragmentation that are possible if large  
 \*\* allocations are avoided. This hint is normally off.  
 \*\* </dd>  
 \*\*  
 \*\* [[`SQLITE_CONFIG_MEMSTATUS`]] <dt>`SQLITE_CONFIG_MEMSTATUS`</dt>  
 \*\* <dd> ^The `SQLITE_CONFIG_MEMSTATUS` option takes single argument of type `int`,  
 \*\* interpreted as a boolean, which enables or disables the collection of  
 \*\* memory allocation statistics. ^When memory allocation  
 \*\* statistics are  
 \*\* disabled, the following SQLite interfaces become non-operational:  
 \*\* <ul>  
 \*\* <li> [`sqlite3_hard_heap_limit64()`]  
 \*\* <li> [`sqlite3_memory_used()`]  
 \*\* <li> [`sqlite3_memory_highwater()`]  
 \*\* <li> [`sqlite3_soft_heap_limit64()`]  
 \*\* <li> [`sqlite3_status64()`]  
 \*\* </ul>^  
 \*\* ^Memory allocation statistics are enabled by default unless SQLite is  
 \*\* compiled with [`SQLITE_DEFAULT_MEMSTATUS`]=0 in which case memory  
 \*\* allocation statistics are disabled by default.  
 \*\* </dd>  
 \*\*  
 \*\* [[`SQLITE_CONFIG_SCRATCH`]] <dt>`SQLITE_CONFIG_SCRATCH`</dt>  
 \*\* <dd> The `SQLITE_CONFIG_SCRATCH` option is no longer used.  
 \*\* </dd>  
 \*\*  
 \*\* [[`SQLITE_CONFIG_PAGECACHE`]] <dt>`SQLITE_CONFIG_PAGECACHE`</dt>  
 \*\* <dd> ^The `SQLITE_CONFIG_PAGECACHE` option specifies a memory pool  
 \*\* that SQLite can use for the database page cache with the default page  
 \*\* cache implementation.  
 \*\* This configuration option is a no-op if an application-defined page  
 \*\* cache implementation is loaded using the [`SQLITE_CONFIG_PCACHE2`].  
 \*\*  
 \*\* ^There are three arguments to `SQLITE_CONFIG_PAGECACHE`: A pointer to  
 \*\* 8-byte aligned memory (`pMem`), the size of each page cache line (`sz`),  
 \*\* and the number of cache lines (`N`).  
 \*\* The `sz` argument should be the size of the largest database page  
 \*\* (a power of two between 512 and 65536) plus some extra bytes for each  
 \*\* page header. ^The number of extra bytes needed by the page header  
 \*\* can be determined using [`SQLITE_CONFIG_PCACHE_HDRSZ`].  
 \*\* ^It is harmless, apart from the wasted memory,  
 \*\* for the `sz` parameter to be larger than necessary. The `pMem`  
 \*\* argument must be either a `NULL` pointer or a pointer to an 8-byte

\*\* aligned block of memory of at least sz\*N bytes, otherwise  
 \*\* subsequent behavior is undefined.  
 \*\* ^When pMem is not NULL, SQLite will strive to use the memory provided  
 \*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if  
 \*\* a page cache line is larger than sz bytes or if all of the pMem buffer  
 \*\* is exhausted.  
 \*\* ^If pMem is NULL and N is non-zero, then  
 each database connection  
 \*\* does an initial bulk allocation for page cache memory  
 \*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or  
 \*\* of -1024\*N bytes if N is negative, . ^If additional  
 \*\* page cache memory is needed beyond what is provided by the initial  
 \*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
 \*\* additional cache line. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer  
 \*\* that SQLite will use for all of its dynamic memory allocation needs  
 \*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
 \*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
 \*\* [SQLITE\_ERROR] if invoked otherwise.  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
 \*\* An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum  
 allocation size.  
 \*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used  
 \*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the  
 content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>

\*\*

\*\* `[[SQLITE_CONFIG_GETMUTEX]]` <dt>`SQLITE_CONFIG_GETMUTEX`</dt>

\*\* <dd> ^The `SQLITE_CONFIG_GETMUTEX` option takes a single argument which

\*\* is a pointer to an instance of the `[sqlite3_mutex_methods]` structure. The

\*\* `[sqlite3_mutex_methods]`

\*\* structure is filled with the currently defined mutex routines.)^

\*\* This option can be used to overload the default mutex allocation

\*\* routines with a wrapper used to track mutex usage for performance

\*\* profiling or testing, for example. ^If SQLite is compiled with

\*\* the `[[SQLITE_THREADSAFE | SQLITE_THREADSAFE=0]]` compile-time option then

\*\* the entire mutexing

subsystem is omitted from the build and hence calls to

\*\* `[sqlite3_config()]` with the `SQLITE_CONFIG_GETMUTEX` configuration option will

\*\* return `[[SQLITE_ERROR]]`.</dd>

\*\*

\*\* `[[SQLITE_CONFIG_LOOKASIDE]]` <dt>`SQLITE_CONFIG_LOOKASIDE`</dt>

\*\* <dd> ^The `SQLITE_CONFIG_LOOKASIDE` option takes two arguments that determine

\*\* the default size of lookaside memory on each `[database connection]`.

\*\* The first argument is the

\*\* size of each lookaside buffer slot and the second is the number of

\*\* slots allocated to each database connection.)^ `[[SQLITE_CONFIG_LOOKASIDE]]`

\*\* sets the <i>default</i> lookaside size. The `[[SQLITE_DBCONFIG_LOOKASIDE]]`

\*\* option to `[sqlite3_db_config()]` can be used to change the lookaside

\*\* configuration on individual connections.)^ </dd>

\*\*

\*\* `[[SQLITE_CONFIG_PCACHE2]]` <dt>`SQLITE_CONFIG_PCACHE2`</dt>

\*\* <dd> ^The `SQLITE_CONFIG_PCACHE2` option takes a single argument which is

\*\* a pointer to an `[sqlite3_pcache_methods2]` object. This object specifies

\*\* the interface to a custom

page cache implementation.)^

\*\* ^SQLite makes a copy of the `[sqlite3_pcache_methods2]` object.</dd>

\*\*

\*\* `[[SQLITE_CONFIG_GETPCACHE2]]` <dt>`SQLITE_CONFIG_GETPCACHE2`</dt>

\*\* <dd> ^The `SQLITE_CONFIG_GETPCACHE2` option takes a single argument which

\*\* is a pointer to an `[sqlite3_pcache_methods2]` object. SQLite copies of

\*\* the current page cache implementation into that object.)^ </dd>

\*\*

\*\* `[[SQLITE_CONFIG_LOG]]` <dt>`SQLITE_CONFIG_LOG`</dt>

\*\* <dd> The `SQLITE_CONFIG_LOG` option is used to configure the SQLite

\*\* global `[error log]`.

\*\* (^The `SQLITE_CONFIG_LOG` option takes two arguments: a pointer to a

\*\* function with a call signature of `void (*)(void*,int,const char*)`,

\*\* and a pointer to void. ^If the function pointer is not `NULL`, it is

\*\* invoked by `[sqlite3_log()]` to process each logging event. ^If the

\*\* function pointer is `NULL`, the `[sqlite3_log()]` interface becomes a no-op.

\*\* ^The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is

\*\* passed through as the first parameter

to the application-defined logger

\*\* function whenever that function is invoked. ^The second parameter to

\*\* the logger function is a copy of the first parameter to the corresponding

\*\* [sqlite3\_log()] call and is intended to be a [result code] or an

\*\* [extended result code]. ^The third parameter passed to the logger is

\*\* log message after formatting via [sqlite3\_snprintf()].

\*\* The SQLite logging interface is not reentrant; the logger function

\*\* supplied by the application must not invoke any SQLite interface.

\*\* In a multi-threaded application, the application-defined logger

\*\* function must be threadsafe. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_URI]] <dt>SQLITE\_CONFIG\_URI

\*\* <dd>^(The SQLITE\_CONFIG\_URI option takes a single argument of type int.

\*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,

\*\* then URI handling is globally disabled.)^ ^If URI handling is globally

\*\* enabled, all filenames passed to [sqlite3\_open()], [sqlite3\_open\_v2()],

\*\* [sqlite3\_open16()]

or

\*\* specified as part of [ATTACH] commands are interpreted as URIs, regardless

\*\* of whether or not the [SQLITE\_OPEN\_URI] flag is set when the database

\*\* connection is opened. ^If it is globally disabled, filenames are

\*\* only interpreted as URIs if the SQLITE\_OPEN\_URI flag is set when the

\*\* database connection is opened. ^By default, URI handling is globally

\*\* disabled. The default value may be changed by compiling with the

\*\* [SQLITE\_USE\_URI] symbol defined.)^

\*\*

\*\* [[SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN]] <dt>SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN

\*\* <dd>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN option takes a single integer

\*\* argument which is interpreted as a boolean in order to enable or disable

\*\* the use of covering indices for full table scans in the query optimizer.

\*\* ^The default setting is determined

\*\* by the [SQLITE\_ALLOW\_COVERING\_INDEX\_SCAN] compile-time option, or is "on"

\*\* if that compile-time option is omitted.

\*\* The ability to disable the use of covering indices

for full table scans

\*\* is because some incorrectly coded legacy applications might malfunction

\*\* when the optimization is enabled. Providing the ability to

\*\* disable the optimization allows the older, buggy application code to work

\*\* without change even with newer versions of SQLite.

\*\*

\*\* [[SQLITE\_CONFIG\_PCACHE]] [[SQLITE\_CONFIG\_GETPCACHE]]

\*\* <dt>SQLITE\_CONFIG\_PCACHE and SQLITE\_CONFIG\_GETPCACHE

\*\* <dd> These options are obsolete and should not be used by new code.

\*\* They are retained for backwards compatibility but are now no-ops.

\*\* </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_SQLLOG]]

\*\* <dt>SQLITE\_CONFIG\_SQLLOG

**\*\* <dd>**This option is only available if `sqlite` is compiled with the `[SQLITE_ENABLE_SQLLOG]` pre-processor macro defined. The first argument should be a pointer to a function of type `void*(*)(void*,sqlite3*,const char*, int)`. The second should be of type `(void*)`. The callback is invoked by the library in three separate circumstances, identified by the value passed as the fourth parameter. If the fourth parameter is 0, then the database connection passed as the second argument has just been opened. The third argument points to a buffer containing the name of the main database file. If the fourth parameter is 1, then the SQL statement that the third parameter points to has just been executed. Or, if the fourth parameter is 2, then the connection being passed as the second parameter is being closed. The third parameter is passed NULL in this case. An example of using this configuration option can be seen in the "test\_sqllog.c" source file in the canonical SQLite source tree.**</dd>**

**\*\***

**\*\*** `[SQLITE_CONFIG_MMAP_SIZE]`  
**\*\* <dt>**`SQLITE_CONFIG_MMAP_SIZE`  
**\*\* <dd>**`SQLITE_CONFIG_MMAP_SIZE` takes two 64-bit integer (`sqlite3_int64`) values that are the default mmap size limit (the default setting for `[PRAGMA mmap_size]`) and the maximum allowed mmap size limit. The default setting can be overridden by each database connection using either the `[PRAGMA mmap_size]` command, or by using the `[SQLITE_FCNTL_MMAP_SIZE]` file control. (The maximum allowed mmap size will be silently truncated if necessary so that it does not exceed the compile-time maximum mmap size set by the `[SQLITE_MAX_MMAP_SIZE]` compile-time option.)  
**\*\*** If either argument to this option is negative, then that argument is changed to its compile-time default.

**\*\***

**\*\*** `[SQLITE_CONFIG_WIN32_HEAPSIZE]`  
**\*\* <dt>**`SQLITE_CONFIG_WIN32_HEAPSIZE`  
**\*\* <dd>**The `SQLITE_CONFIG_WIN32_HEAPSIZE` option is only available if SQLite is compiled for Windows with the `[SQLITE_WIN32_MALLOC]` pre-processor macro defined. `SQLITE_CONFIG_WIN32_HEAPSIZE` takes a 32-bit unsigned integer value that specifies the maximum size of the created heap.

**\*\***

**\*\*** `[SQLITE_CONFIG_PCACHE_HDRSZ]`  
**\*\* <dt>**`SQLITE_CONFIG_PCACHE_HDRSZ`  
**\*\* <dd>**The `SQLITE_CONFIG_PCACHE_HDRSZ` option takes a single parameter which is a pointer to an integer and writes into that integer the number of extra bytes per page required for each page in `[SQLITE_CONFIG_PAGECACHE]`. The amount of extra space required can change depending on the compiler, target platform, and SQLite version.

**\*\***

**\*\*** `[SQLITE_CONFIG_PMASZ]`

**SQLITE\_CONFIG\_PMASZ**  
 The `SQLITE_CONFIG_PMASZ` option takes a single parameter which is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded sorter to that integer. The default minimum PMA Size is set by the `[SQLITE_SORTER_PMASZ]` compile-time option. New threads are launched to help with sort operations when multithreaded sorting is enabled (using the `[PRAGMA threads]` command) and the amount of content to be sorted exceeds the page size times the minimum of the `[PRAGMA cache_size]` setting and this value.

**SQLITE\_CONFIG\_STMTJRNL\_SPILL**  
 The `SQLITE_CONFIG_STMTJRNL_SPILL` option takes a single parameter which becomes the [statement journal] spill-to-disk threshold.

[Statement journals] are held in memory until their size (in bytes) exceeds this threshold, at which point they are written to disk. Or if the threshold is -1, statement journals are always held exclusively in memory. Since many statement journals never become large, setting the spill threshold to a value such as 64KiB can greatly reduce the amount of I/O required to support statement rollback. The default value for this setting is controlled by the `[SQLITE_STMTJRNL_SPILL]` compile-time option.

**SQLITE\_CONFIG\_SORTERREF\_SIZE**  
 The `SQLITE_CONFIG_SORTERREF_SIZE` option accepts a single parameter of type (int) - the new value of the sorter-reference size threshold. Usually, when SQLite uses an external sort to order records according to an `ORDER BY` clause, all fields required by the caller are present in the sorted records. However, if SQLite determines based on the declared type of a table column that its values are likely to be very large - larger than the configured sorter-reference size threshold - then a reference is stored in each sorted record and the required column values loaded from the database as records are returned in sorted order. The default value for this option is to never use this optimization. Specifying a negative value for this option restores the default behaviour. This option is only available if SQLite is compiled with the `[SQLITE_ENABLE_SORTER_REFERENCES]` compile-time option.

**SQLITE\_CONFIG\_MEMDB\_MAXSIZE**  
 The `SQLITE_CONFIG_MEMDB_MAXSIZE` option accepts a single parameter `[sqlite3_int64]` parameter which is the default maximum size for an in-memory database created using `[sqlite3_deserialize()]`. This default maximum size can be adjusted up or down for individual databases using the

```
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
** never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
**/
```

Found in path(s):

```
*/opt/cola/permits/1483856429_1670589910.8646386/0/sqlite-3-40-0-zip/sqlite-amalgamation-3400000/sqlite3.h
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
** CAPI3REF: Configuration Options
```

```
** KEYWORDS: {configuration option}
```

```
**
```

```
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
```

```
**
```

```
** New configuration options may be added in future releases of SQLite.
```

```
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
```

```
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
```

```
**
```

```
** <dl>
```

```
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
```

```
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite
** is compiled with
```

```
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
```

```
** it is not possible to change the [threading mode] from its default
```

```
** value of Single-thread and so [sqlite3_config()] will return
```

```
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
```

```
** configuration option.</dd>
```

```
**
```

```
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
```

```
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
```

```
** The application is responsible for serializing access to
```

```
** [database connections] and [prepared statements]. But other mutexes
```

```
** are enabled so that SQLite will be safe to use in a multi-threaded
```

```
** environment as long as no two threads attempt to use the same
```

```
** [database connection] at the same time. ^If SQLite is compiled with
```

\*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then

\*\* it is not possible to set the Multi-thread [threading mode] and

\*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the

\*\* SQLITE\_CONFIG\_MULTITHREAD configuration option.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_SERIALIZED]] <dt>SQLITE\_CONFIG\_SERIALIZED</dt>

\*\* <dd>There are no arguments to this option. ^This option sets the

\*\* [threading mode] to Serialized. In other words, this option enables

\*\* all mutexes including the recursive

\*\* mutexes on [database connection] and [prepared statement] objects.

\*\* In this mode (which is the default when SQLite is compiled with

\*\* [SQLITE\_THREADSAFE=1]) the SQLite library will itself serialize access

\*\* to [database connections] and [prepared statements] so that the

\*\* application is free to use the same [database connection] or the

\*\* same [prepared statement] in different threads at the same time.

\*\* ^If SQLite is compiled with

\*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then

\*\* it is not possible to set the

Serialized [threading mode] and

\*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the

\*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>

\*\* <dd> ^The SQLITE\_CONFIG\_MALLOC option takes a single argument which is

\*\* a pointer to an instance of the [sqlite3\_mem\_methods] structure.

\*\* The argument specifies

\*\* alternative low-level memory allocation routines to be used in place of

\*\* the memory allocation routines built into SQLite.)^ ^SQLite makes

\*\* its own private copy of the content of the [sqlite3\_mem\_methods] structure

\*\* before the [sqlite3\_config()] call returns.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>

\*\* <dd> ^The SQLITE\_CONFIG\_GETMALLOC option takes a single argument which

\*\* is a pointer to an instance of the [sqlite3\_mem\_methods] structure.

\*\* The [sqlite3\_mem\_methods]

\*\* structure is filled with the currently defined memory allocation routines.)^

\*\* This option can

be used to overload the default memory allocation

\*\* routines with a wrapper that simulations memory allocation failure or

\*\* tracks memory usage, for example. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_SMALL\_MALLOC]] <dt>SQLITE\_CONFIG\_SMALL\_MALLOC</dt>

\*\* <dd> ^The SQLITE\_CONFIG\_SMALL\_MALLOC option takes single argument of

\*\* type int, interpreted as a boolean, which if true provides a hint to

\*\* SQLite that it should avoid large memory allocations if possible.

\*\* SQLite will run faster if it is free to make large memory allocations,

\*\* but some application might prefer to run slower in exchange for



\*\* guarantees about memory fragmentation that are possible if large  
 \*\* allocations are avoided. This hint is normally off.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MEMSTATUS]] <dt>SQLITE\_CONFIG\_MEMSTATUS</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MEMSTATUS option takes single argument of type int,  
 \*\* interpreted as a boolean, which enables or disables the collection of  
 \*\* memory allocation statistics. ^(When memory allocation  
 statistics are  
 \*\* disabled, the following SQLite interfaces become non-operational:  
 \*\* <ul>  
 \*\* <li> [sqlite3\_hard\_heap\_limit64()]  
 \*\* <li> [sqlite3\_memory\_used()]  
 \*\* <li> [sqlite3\_memory\_highwater()]  
 \*\* <li> [sqlite3\_soft\_heap\_limit64()]  
 \*\* <li> [sqlite3\_status64()]  
 \*\* </ul>)^  
 \*\* ^Memory allocation statistics are enabled by default unless SQLite is  
 \*\* compiled with [SQLITE\_DEFAULT\_MEMSTATUS]=0 in which case memory  
 \*\* allocation statistics are disabled by default.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SCRATCH]] <dt>SQLITE\_CONFIG\_SCRATCH</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_SCRATCH option is no longer used.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PAGECACHE]] <dt>SQLITE\_CONFIG\_PAGECACHE</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool  
 \*\* that SQLite can use for the database page cache with the default page  
 \*\* cache implementation.  
 \*\* This configuration option is a no-op if an application-defined page  
 \*\* cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2].  
 \*\*  
 ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to  
 \*\* 8-byte aligned memory (pMem), the size of each page cache line (sz),  
 \*\* and the number of cache lines (N).  
 \*\* The sz argument should be the size of the largest database page  
 \*\* (a power of two between 512 and 65536) plus some extra bytes for each  
 \*\* page header. ^The number of extra bytes needed by the page header  
 \*\* can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ].  
 \*\* ^It is harmless, apart from the wasted memory,  
 \*\* for the sz parameter to be larger than necessary. The pMem  
 \*\* argument must be either a NULL pointer or a pointer to an 8-byte  
 \*\* aligned block of memory of at least sz\*N bytes, otherwise  
 \*\* subsequent behavior is undefined.  
 \*\* ^When pMem is not NULL, SQLite will strive to use the memory provided  
 \*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if  
 \*\* a page cache line is larger than sz bytes or if all of the pMem buffer

\*\* is exhausted.

\*\* ^If pMem is NULL and N is non-zero, then  
each database connection  
\*\* does an initial bulk allocation for page cache memory  
\*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or  
\*\* of -1024\*N bytes if N is negative. . ^If additional  
\*\* page cache memory is needed beyond what is provided by the initial  
\*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
\*\* additional cache line. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
\*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer  
\*\* that SQLite will use for all of its dynamic memory allocation needs  
\*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].  
\*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
\*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
\*\* [SQLITE\_ERROR] if invoked otherwise.  
\*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
\*\* An 8-byte aligned pointer to the memory,  
\*\* the number of bytes in the memory buffer, and the minimum  
allocation size.  
\*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
\*\* to using its default memory allocator (the system malloc() implementation),  
\*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
\*\* memory pointer is not NULL then the alternative memory  
\*\* allocator is engaged to handle all of SQLites memory allocation needs.  
\*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
\*\* boundary or subsequent behavior of SQLite will be undefined.  
\*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
\*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
\*\* <dd> ^The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
\*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
\*\* The argument specifies alternative low-level mutex routines to be used  
\*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
\*\* the  
content of the [sqlite3\_mutex\_methods] structure before the call to  
\*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
\*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
\*\* the entire mutexing subsystem is omitted from the build and hence calls to  
\*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
\*\* return [SQLITE\_ERROR].</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
\*\* <dd> ^The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which  
\*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The  
\*\* [sqlite3\_mutex\_methods]

\*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing  
 subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_LOOKASIDE option takes two arguments that determine  
 \*\* the default size of lookaside memory on each [database connection].  
 \*\* The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ ^(SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is  
 \*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies  
 \*\* the interface to a custom  
 page cache implementation.)^  
 \*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_GETPCACHE2 option takes a single argument which  
 \*\* is a pointer to an [sqlite3\_pcache\_methods2] object. SQLite copies of  
 \*\* the current page cache implementation into that object.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOG]] <dt>SQLITE\_CONFIG\_LOG</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite  
 \*\* global [error log].  
 \*\* (^The SQLITE\_CONFIG\_LOG option takes two arguments: a pointer to a  
 \*\* function with a call signature of void(\*)(void\*,int,const char\*),  
 \*\* and a pointer to void. ^If the function pointer is not NULL, it is  
 \*\* invoked by [sqlite3\_log()] to process each logging event. ^If the  
 \*\* function pointer is NULL, the [sqlite3\_log()] interface becomes a no-op.  
 \*\* ^The void pointer that is the second argument to SQLITE\_CONFIG\_LOG is  
 \*\* passed through as the first parameter  
 to the application-defined logger  
 \*\* function whenever that function is invoked. ^The second parameter to  
 \*\* the logger function is a copy of the first parameter to the corresponding  
 \*\* [sqlite3\_log()] call and is intended to be a [result code] or an  
 \*\* [extended result code]. ^The third parameter passed to the logger is  
 \*\* log message after formatting via [sqlite3\_snprintf()].

\*\* The SQLite logging interface is not reentrant; the logger function  
 \*\* supplied by the application must not invoke any SQLite interface.  
 \*\* In a multi-threaded application, the application-defined logger  
 \*\* function must be threadsafe. </dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_URI]] <dt>SQLITE\_CONFIG\_URI  
 \*\* <dd>^(The SQLITE\_CONFIG\_URI option takes a single argument of type int.  
 \*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,  
 \*\* then URI handling is globally disabled.)^ ^If URI handling is globally  
 \*\* enabled, all filenames passed to [sqlite3\_open()], [sqlite3\_open\_v2()],  
 \*\* [sqlite3\_open16()]  
 or  
 \*\* specified as part of [ATTACH] commands are interpreted as URIs, regardless  
 \*\* of whether or not the [SQLITE\_OPEN\_URI] flag is set when the database  
 \*\* connection is opened. ^If it is globally disabled, filenames are  
 \*\* only interpreted as URIs if the SQLITE\_OPEN\_URI flag is set when the  
 \*\* database connection is opened. ^(By default, URI handling is globally  
 \*\* disabled. The default value may be changed by compiling with the  
 \*\* [SQLITE\_USE\_URI] symbol defined.)^  
 \*\*

\*\* [[SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN]] <dt>SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN  
 \*\* <dd>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN option takes a single integer  
 \*\* argument which is interpreted as a boolean in order to enable or disable  
 \*\* the use of covering indices for full table scans in the query optimizer.  
 \*\* ^The default setting is determined  
 \*\* by the [SQLITE\_ALLOW\_COVERING\_INDEX\_SCAN] compile-time option, or is "on"  
 \*\* if that compile-time option is omitted.  
 \*\* The ability to disable the use of covering indices  
 for full table scans  
 \*\* is because some incorrectly coded legacy applications might malfunction  
 \*\* when the optimization is enabled. Providing the ability to  
 \*\* disable the optimization allows the older, buggy application code to work  
 \*\* without change even with newer versions of SQLite.  
 \*\*

\*\* [[SQLITE\_CONFIG\_PCACHE]] [[SQLITE\_CONFIG\_GETPCACHE]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE and SQLITE\_CONFIG\_GETPCACHE  
 \*\* <dd> These options are obsolete and should not be used by new code.  
 \*\* They are retained for backwards compatibility but are now no-ops.  
 \*\* </dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_SQLLOG]]  
 \*\* <dt>SQLITE\_CONFIG\_SQLLOG  
 \*\* <dd>This option is only available if sqlite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SQLLOG] pre-processor macro defined. The first argument should  
 \*\* be a pointer to a function of type void(\*)(void\*,sqlite3\*,const char\*, int).  
 \*\* The second should be of type (void\*). The callback is invoked by the library  
 \*\* in three separate circumstances, identified by the value passed as the  
 \*\*

fourth parameter. If the fourth parameter is 0, then the database connection  
 \*\* passed as the second argument has just been opened. The third argument  
 \*\* points to a buffer containing the name of the main database file. If the  
 \*\* fourth parameter is 1, then the SQL statement that the third parameter  
 \*\* points to has just been executed. Or, if the fourth parameter is 2, then  
 \*\* the connection being passed as the second parameter is being closed. The  
 \*\* third parameter is passed NULL In this case. An example of using this  
 \*\* configuration option can be seen in the "test\_sqllog.c" source file in  
 \*\* the canonical SQLite source tree.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE  
 \*\* <dd>^SQLITE\_CONFIG\_MMAP\_SIZE takes two 64-bit integer (sqlite3\_int64) values  
 \*\* that are the default mmap size limit (the default setting for  
 \*\* [PRAGMA mmap\_size]) and the maximum allowed mmap size limit.  
 \*\* ^The default setting can be overridden by each database connection using  
 \*\* either  
 the [PRAGMA mmap\_size] command, or by using the  
 \*\* [SQLITE\_FCNTL\_MMAP\_SIZE] file control. ^(The maximum allowed mmap size  
 \*\* will be silently truncated if necessary so that it does not exceed the  
 \*\* compile-time maximum mmap size set by the  
 \*\* [SQLITE\_MAX\_MMAP\_SIZE] compile-time option.)^  
 \*\* ^If either argument to this option is negative, then that argument is  
 \*\* changed to its compile-time default.

\*\*

\*\* [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE  
 \*\* <dd>^The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is  
 \*\* compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro  
 \*\* defined. ^SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value  
 \*\* that specifies the maximum size of the created heap.

\*\*

\*\* [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ  
 \*\* <dd>^The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which  
 \*\* is a pointer to an integer and writes into that integer the number of extra  
 \*\*  
 bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* The amount of extra space required can change depending on the compiler,  
 \*\* target platform, and SQLite version.

\*\*

\*\* [[SQLITE\_CONFIG\_PMASZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PMASZ  
 \*\* <dd>^The SQLITE\_CONFIG\_PMASZ option takes a single parameter which  
 \*\* is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded  
 \*\* sorter to that integer. The default minimum PMA Size is set by the  
 \*\* [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched  
 \*\* to help with sort operations when multithreaded sorting

\*\* is enabled (using the [PRAGMA threads] command) and the amount of content  
 \*\* to be sorted exceeds the page size times the minimum of the  
 \*\* [PRAGMA cache\_size] setting and this value.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_STMTJRNL\_SPILL]]  
 \*\* <dt>SQLITE\_CONFIG\_STMTJRNL\_SPILL  
 \*\* <dd>^The SQLITE\_CONFIG\_STMTJRNL\_SPILL option takes a single parameter which  
 \*\* becomes the [statement journal] spill-to-disk threshold.  
 \*\*  
 [Statement journals] are held in memory until their size (in bytes)  
 \*\* exceeds this threshold, at which point they are written to disk.  
 \*\* Or if the threshold is -1, statement journals are always held  
 \*\* exclusively in memory.  
 \*\* Since many statement journals never become large, setting the spill  
 \*\* threshold to a value such as 64KiB can greatly reduce the amount of  
 \*\* I/O required to support statement rollback.  
 \*\* The default value for this setting is controlled by the  
 \*\* [SQLITE\_STMTJRNL\_SPILL] compile-time option.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SORTERREF\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_SORTERREF\_SIZE  
 \*\* <dd>The SQLITE\_CONFIG\_SORTERREF\_SIZE option accepts a single parameter  
 \*\* of type (int) - the new value of the sorter-reference size threshold.  
 \*\* Usually, when SQLite uses an external sort to order records according  
 \*\* to an ORDER BY clause, all fields required by the caller are present in the  
 \*\* sorted records. However, if SQLite determines based on the declared type  
 \*\* of a table column that  
 its values are likely to be very large - larger  
 \*\* than the configured sorter-reference size threshold - then a reference  
 \*\* is stored in each sorted record and the required column values loaded  
 \*\* from the database as records are returned in sorted order. The default  
 \*\* value for this option is to never use this optimization. Specifying a  
 \*\* negative value for this option restores the default behaviour.  
 \*\* This option is only available if SQLite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SORTER\_REFERENCES] compile-time option.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MEMDB\_MAXSIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MEMDB\_MAXSIZE  
 \*\* <dd>The SQLITE\_CONFIG\_MEMDB\_MAXSIZE option accepts a single parameter  
 \*\* [sqlite3\_int64] parameter which is the default maximum size for an in-memory  
 \*\* database created using [sqlite3\_deserialize()]. This default maximum  
 \*\* size can be adjusted up or down for individual databases using the  
 \*\* [SQLITE\_FCNTL\_SIZE\_LIMIT] [sqlite3\_file\_control|file-control]. If this  
 \*\* configuration setting is  
 never used, then the default maximum is determined  
 \*\* by the [SQLITE\_MEMDB\_DEFAULT\_MAXSIZE] compile-time option. If that  
 \*\* compile-time option is not set, then the default maximum is 1073741824.  
 \*\* </dl>

```

*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**

**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**

**
** This file
** contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
** + for Posix Advisory
Locks
** + for no-op locks
** + for dot-file locks

```

```

** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
** methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

```

Found

in path(s):

```
* /opt/cola/permits/1483856429_1670589910.8646386/0/sqlite-3-40-0-zip/sqlite-amalgamation-3400000/sqlite3.c
```

No license file was found, but licenses were detected in source scan.

```
/* This will be more informative in a later version. */
```

Found in path(s):

```
* /opt/cola/permits/1483856429_1670589910.8646386/0/sqlite-3-40-0-zip/sqlite-amalgamation-3400000/shell.c
```

# 1.385 alpine-baselayout 3.4.0-r0

## 1.385.1 Available under license :

```

Automatically generated by apkgbuild-cpan, template 1
Contributor: Francesco Colista <francesco.colista@gmail.com>
Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"

```



```
makedepends="perl-dev $spanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/${_pkgreal-$pkgver}.tar.gz"
```

```
_builddir="$srcdir/${_pkgreal-$pkgver}"
```

```
prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
```

```
build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 make && make test
}
```

```
package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}
```

```
md5sums="0c5fd53d93818566234578b27d667b35 Software-License-0.103004.tar.gz"
```

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2200 Mission College Blvd., Santa Clara, CA  
95052.

```
Automatically generated by apkbuild-cpan, template 1
Contributor: Valery Kartel <valery.kartel@gmail.com>
Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/${_pkgreal}-${pkgver}.tar.gz"

_builddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
 make && make test || return 1
}

package() {
```

```

cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
find "$pkgdir"
\(-name perllocal.pod -o -name .packlist\) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
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Charlotte, NC 28269  
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```
Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"

_builddir="$srcdir"/${_pkgname}-${pkgver}
prepare() {
 local i
 cd "$_builddir"
 for i in $source; do
 case $i in
 *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
 esac
 done
}

build() {
```

```
cd "$_builddir"
python setup.py build || return 1
}

package() {
cd "$_builddir"
python setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
mini_sendmail - accept email on behalf of real sendmail
```

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```
Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-igpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
```

```

depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_1gpl/2.3/libart_1gpl-$pkgver.tar.bz2
"

_buildddir="$srcdir"/libart_1gpl-$pkgver

prepare() {
cd "$_buildddir"
update_config_sub || return 1
}
build() {
cd "$_buildddir"
./configure \
--build=$CBUILD \
--host=$CHOST \
--prefix=/usr \
|| return 1
make || return 1
}

package() {
cd "$_buildddir"
make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_1gpl-2.3.21.tar.bz2"

```

## 1.386 linux-headers 5.19.5-r0

### 1.386.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1483856480_1670598473.5494552/0/linux-libc-headers-auto-th-linux-libc-headers-5-19-3-1-
zip/linux-libc-headers-auto-th-linux-libc-headers-5.19.3-1/linux-libc-headers.spec
```

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```
diff -uNr linux-2.6/include/linux/netfilter_ipv4/ip_set.h linux-2.6/include/linux/netfilter_ipv4/ip_set.h
--- linux-2.6/include/linux/netfilter_ipv4/ip_set.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6/include/linux/netfilter_ipv4/ip_set.h 2005-10-13 10:53:58.000000000 +0200
@@ -0,0 +1,498 @@
+#ifndef _IP_SET_H
+#define _IP_SET_H
```

```

+
+/* Copyright (C) 2000-2002 Joakim Axelsson <gozem@linux.nu>
+ *
+ * Patrick Schaaf <bof@bof.de>
+ *
+ * Martin Josefsson <gandalf@wlug.westbo.se>
+ * Copyright (C) 2003-2004 Jozsef Kadlecsek <kadlec@blackhole.kfki.hu>
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+ * published by the Free Software Foundation.
+ */
+
+
+#if 0
+#define IP_SET_DEBUG
+#endif
+
+
+/*
+ * A sockopt of such quality has hardly ever been seen before on the open
+ * market!
+
+ This little beauty, hardly ever used: above 64, so it's
+ * traditionally used for firewalling, not touched (even once!) by the
+ * 2.0, 2.2 and 2.4 kernels!
+ *
+ * Comes with its own certificate of authenticity, valid anywhere in the
+ * Free world!
+ *
+ * Rusty, 19.4.2000
+ */
+#define SO_IP_SET 83
+
+
+/*
+ * Heavily modify by Joakim Axelsson 08.03.2002
+ * - Made it more modulebased
+ *
+ * Additional heavy modifications by Jozsef Kadlecsek 22.02.2004
+ * - bindings added
+ * - in order to "deal with" backward compatibility, renamed to ipset
+ */
+
+
+/*
+ * Used so that the kernel module and ipset-binary can match their versions
+ */
+#define IP_SET_PROTOCOL_VERSION 2
+
+
+#define IP_SET_MAXNAMELEN 32 /* set names and set typenames */
+
+
+/* Lets work with our own typedef for representing an IP address.
+ * We hope to make the code more portable, possibly to IPv6...
+ */

```

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+ * The representation works in HOST byte order, because most set types
+ * will perform arithmetic operations
and compare operations.
+ *
+ * For now the type is an uint32_t.
+ *
+ * Make sure to ONLY use the functions when translating and parsing
+ * in order to keep the host byte order and make it more portable:
+ * parse_ip()
+ * parse_mask()
+ * parse_ipandmask()
+ * ip_tostring()
+ * (Joakim: where are they???)
+ */
+
+typedef uint32_t ip_set_ip_t;
+
+/* Sets are identified by an id in kernel space. Tweak with ip_set_id_t
+ * and IP_SET_INVALID_ID if you want to increase the max number of sets.
+ */
+typedef uint16_t ip_set_id_t;
+
+#define IP_SET_INVALID_ID 65535
+
+/* How deep we follow bindings */
+#define IP_SET_MAX_BINDINGS 6
+
+/*
+ * Option flags for kernel operations (ipt_set_info)
+ */
+#define IPSET_SRC 0x01 /* Source match/add */
+#define IPSET_DST 0x02 /* Destination match/add */
+#define IPSET_MATCH_INV 0x04 /* Inverse matching */
+
+/*
+ * Set features
+ */
+#define IPSET_TYPE_IP 0x01 /* IP address type of set */
+#define IPSET_TYPE_PORT 0x02 /* Port type of set
*/
+#define IPSET_DATA_SINGLE 0x04 /* Single data storage */
+#define IPSET_DATA_DOUBLE 0x08 /* Double data storage */
+
+/* Reserved keywords */
+#define IPSET_TOKEN_DEFAULT ":default:"
+#define IPSET_TOKEN_ALL ":all:"
+
+/* SO_IP_SET operation constants, and their request struct types.

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+ *
+ * Operation ids:
+ * 0-99: commands with version checking
+ * 100-199: add/del/test/bind/unbind
+ * 200-299: list, save, restore
+ */
+
+/* Single shot operations:
+ * version, create, destroy, flush, rename and swap
+ *
+ * Sets are identified by name.
+ */
+
+#define IP_SET_REQ_STD \
+ unsigned op; \
+ unsigned version; \
+ char name[IP_SET_MAXNAMELEN]
+
+#define IP_SET_OP_CREATE 0x00000001 /* Create a new (empty) set */
+struct ip_set_req_create {
+ IP_SET_REQ_STD;
+ char typename[IP_SET_MAXNAMELEN];
+};
+
+#define IP_SET_OP_DESTROY 0x00000002 /* Remove a (empty) set */
+struct ip_set_req_std {
+ IP_SET_REQ_STD;
+};
+
+#define IP_SET_OP_FLUSH 0x00000003 /* Remove all IPs in a set */
+/*
+ Uses ip_set_req_std */
+
+#define IP_SET_OP_RENAME 0x00000004 /* Rename a set */
+/* Uses ip_set_req_create */
+
+#define IP_SET_OP_SWAP 0x00000005 /* Swap two sets */
+/* Uses ip_set_req_create */
+
+union ip_set_name_index {
+ char name[IP_SET_MAXNAMELEN];
+ ip_set_id_t index;
+};
+
+#define IP_SET_OP_GET_BYNAME 0x00000006 /* Get set index by name */
+struct ip_set_req_get_set {
+ unsigned op;
+ unsigned version;

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```

+ union ip_set_name_index set;
+};
+
+
+ #define IP_SET_OP_GET_BYINDEX 0x00000007 /* Get set name by index */
+ /* Uses ip_set_req_get_set */
+
+ #define IP_SET_OP_VERSION 0x00000100 /* Ask kernel version */
+ struct ip_set_req_version {
+ unsigned op;
+ unsigned version;
+ };
+
+ /* Double shots operations:
+ * add, del, test, bind and unbind.
+ *
+ * First we query the kernel to get the index and type of the target set,
+ * then issue the command. Validity of IP is checked in kernel in order
+ * to minimalize sockopt operations.
+ */
+
+ /* Get minimal set data for add/del/test/bind/unbind
+ IP */
+ #define IP_SET_OP_ADT_GET 0x00000010 /* Get set and type */
+ struct ip_set_req_adt_get {
+ unsigned op;
+ unsigned version;
+ union ip_set_name_index set;
+ char typename[IP_SET_MAXNAMELEN];
+ };
+
+ #define IP_SET_REQ_BYINDEX \
+ unsigned op; \
+ ip_set_id_t index;
+
+ struct ip_set_req_adt {
+ IP_SET_REQ_BYINDEX;
+ };
+
+ #define IP_SET_OP_ADD_IP 0x00000101 /* Add an IP to a set */
+ /* Uses ip_set_req_adt, with type specific addage */
+
+ #define IP_SET_OP_DEL_IP 0x00000102 /* Remove an IP from a set */
+ /* Uses ip_set_req_adt, with type specific addage */
+
+ #define IP_SET_OP_TEST_IP 0x00000103 /* Test an IP in a set */
+ /* Uses ip_set_req_adt, with type specific addage */
+
+ #define IP_SET_OP_BIND_SET 0x00000104 /* Bind an IP to a set */

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+/* Uses ip_set_req_bind, with type specific addage */
+struct ip_set_req_bind {
+ IP_SET_REQ_BYINDEX;
+ char binding[IP_SET_MAXNAMELEN];
+};
+
+
+#define IP_SET_OP_UNBIND_SET 0x00000105 /* Unbind an IP from a set */
+/* Uses ip_set_req_bind,
with type speficic addage
+ * index = 0 means unbinding for all sets */
+
+#define IP_SET_OP_TEST_BIND_SET 0x00000106 /* Test binding an IP to a set */
+/* Uses ip_set_req_bind, with type specific addage */
+
+
+/* Multiple shots operations: list, save, restore.
+ *
+ * - check kernel version and query the max number of sets
+ * - get the basic information on all sets
+ * and size required for the next step
+ * - get actual set data: header, data, bindings
+ */
+
+
+/* Get max_sets and the index of a queried set
+ */
+#define IP_SET_OP_MAX_SETS 0x00000020
+struct ip_set_req_max_sets {
+ unsigned op;
+ unsigned version;
+ ip_set_id_t max_sets; /* max_sets */
+ ip_set_id_t sets; /* real number of sets */
+ union ip_set_name_index set; /* index of set if name used */
+};
+
+
+/* Get the id and name of the sets plus size for next step */
+#define IP_SET_OP_LIST_SIZE 0x00000201
+#define IP_SET_OP_SAVE_SIZE 0x00000202
+struct ip_set_req_setnames {
+ unsigned op;
+ ip_set_id_t index; /*
set to list/save */
+ size_t size; /* size to get setdata/bindings */
+ /* followed by sets number of struct ip_set_name_list */
+};
+
+
+struct ip_set_name_list {
+ char name[IP_SET_MAXNAMELEN];
+ char typename[IP_SET_MAXNAMELEN];
+ ip_set_id_t index;

```



```

+ ip_set_id_t id;
+};
+
+/* The actual list operation */
+#define IP_SET_OP_LIST 0x00000203
+struct ip_set_req_list {
+ IP_SET_REQ_BYINDEX;
+ /* sets number of struct ip_set_list in reply */
+};
+
+struct ip_set_list {
+ ip_set_id_t index;
+ ip_set_id_t binding;
+ u_int32_t ref;
+ size_t header_size; /* Set header data of header_size */
+ size_t members_size; /* Set members data of members_size */
+ size_t bindings_size; /* Set bindings data of bindings_size */
+};
+
+struct ip_set_hash_list {
+ ip_set_ip_t ip;
+ ip_set_id_t binding;
+};
+
+/* The save operation */
+#define IP_SET_OP_SAVE 0x00000204
+/* Uses ip_set_req_list, in the reply replaced by
+ * sets number of struct ip_set_save plus a marker
+ * ip_set_save followed by
+ ip_set_hash_save structures.
+ */
+struct ip_set_save {
+ ip_set_id_t index;
+ ip_set_id_t binding;
+ size_t header_size; /* Set header data of header_size */
+ size_t members_size; /* Set members data of members_size */
+};
+
+/* At restoring, ip == 0 means default binding for the given set: */
+struct ip_set_hash_save {
+ ip_set_ip_t ip;
+ ip_set_id_t id;
+ ip_set_id_t binding;
+};
+
+/* The restore operation */
+#define IP_SET_OP_RESTORE 0x00000205
+/* Uses ip_set_req_setnames followed by ip_set_restore structures

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+ * plus a marker ip_set_restore, followed by ip_set_hash_save
+ * structures.
+ */
+struct ip_set_restore {
+ char name[IP_SET_MAXNAMELEN];
+ char typename[IP_SET_MAXNAMELEN];
+ ip_set_id_t index;
+ size_t header_size; /* Create data of header_size */
+ size_t members_size; /* Set members data of members_size */
+};
+
+static inline int bitmap_bytes(ip_set_ip_t a, ip_set_ip_t b)
+{
+ return 4 * (((b - a + 8) / 8) + 3) / 4;
+}
+
+#ifdef __KERNEL__
+
+#define ip_set_printk(format,
+ args...) \
+ do { \
+ printk("%s: %s: ", __FILE__, __FUNCTION__); \
+ printk(format "\n", ## args); \
+ } while (0)
+
+#if defined(IP_SET_DEBUG)
+#define DP(format, args...) \
+ do { \
+ printk("%s: %s (DBG): ", __FILE__, __FUNCTION__); \
+ printk(format "\n", ## args); \
+ } while (0)
+#define IP_SET_ASSERT(x) \
+ do { \
+ if (!(x)) \
+ printk("IP_SET_ASSERT: %s:%i(%s)\n", \
+ __FILE__, __LINE__, __FUNCTION__); \
+ } while (0)
+#else
+#define DP(format, args...)
+#define IP_SET_ASSERT(x)
+#endif
+
+struct ip_set;
+
+/*
+ * The ip_set_type definition - one per set type, e.g. "ipmap".
+ *
+ * Each individual set has a pointer, set->type, going to one

```

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+ * of these structures. Function pointers inside the structure implement
+ * the real behaviour of the sets.
+ *
+ * If not mentioned differently, the implementation behind the function
+ * pointers of a set_type, is expected to return 0 if ok, and a negative
+ * errno (e.g. -EINVAL)
+ * on error.
+ */
+struct ip_set_type {
+ struct list_head list; /* next in list of set types */
+
+ /* test for IP in set (kernel: iptables -m set src|dst)
+ * return 0 if not in set, 1 if in set.
+ */
+ int (*testip_kernel) (struct ip_set *set,
+ const struct sk_buff *skb,
+ ip_set_ip_t *ip,
+ const u_int32_t *flags,
+ unsigned char index);
+
+ /* test for IP in set (userspace: ipset -T set IP)
+ * return 0 if not in set, 1 if in set.
+ */
+ int (*testip) (struct ip_set *set,
+ const void *data, size_t size,
+ ip_set_ip_t *ip);
+
+ /*
+ * Size of the data structure passed by when
+ * adding/deleting/testing an entry.
+ */
+ size_t reqsize;
+
+ /* Add IP into set (userspace: ipset -A set IP)
+ * Return -EEXIST if the address is already in the set,
+ * and -ERANGE if the address lies outside the set bounds.
+ * If the address was not already in the set, 0 is returned.
+ */
+ int (*addip) (struct ip_set *set,
+ const
+ void *data, size_t size,
+ ip_set_ip_t *ip);
+
+ /* Add IP into set (kernel: iptables ... -j SET set src|dst)
+ * Return -EEXIST if the address is already in the set,
+ * and -ERANGE if the address lies outside the set bounds.
+ * If the address was not already in the set, 0 is returned.
+ */

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+ int (*addip_kernel) (struct ip_set *set,
+ const struct sk_buff *skb,
+ ip_set_ip_t *ip,
+ const u_int32_t *flags,
+ unsigned char index);
+
+ /* remove IP from set (userspace: ipset -D set --entry x)
+ * Return -EEXIST if the address is NOT in the set,
+ * and -ERANGE if the address lies outside the set bounds.
+ * If the address really was in the set, 0 is returned.
+ */
+ int (*delip) (struct ip_set *set,
+ const void *data, size_t size,
+ ip_set_ip_t *ip);
+
+ /* remove IP from set (kernel: iptables ... -j SET --entry x)
+ * Return -EEXIST if the address is NOT in the set,
+ * and -ERANGE if the address lies outside the set bounds.
+
+ * If the address really was in the set, 0 is returned.
+ */
+ int (*delip_kernel) (struct ip_set *set,
+ const struct sk_buff *skb,
+ ip_set_ip_t *ip,
+ const u_int32_t *flags,
+ unsigned char index);
+
+ /* new set creation - allocated type specific items
+ */
+ int (*create) (struct ip_set *set,
+ const void *data, size_t size);
+
+ /* retry the operation after successfully tweaking the set
+ */
+ int (*retry) (struct ip_set *set);
+
+ /* set destruction - free type specific items
+ * There is no return value.
+ * Can be called only when child sets are destroyed.
+ */
+ void (*destroy) (struct ip_set *set);
+
+ /* set flushing - reset all bits in the set, or something similar.
+ * There is no return value.
+ */
+ void (*flush) (struct ip_set *set);
+
+ /* Listing: size needed for header

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+ */
+ size_t header_size;
+
+ /* Listing: Get the header
+ *
+ * Fill in the information in "data".
+ * This function is always run after list_header_size()
+ * under a
+ * writelock on the set. Therefor is the length of "data" always
+ * correct.
+ */
+ void (*list_header) (const struct ip_set *set,
+ void *data);
+
+ /* Listing: Get the size for the set members
+ *
+ */
+ int (*list_members_size) (const struct ip_set *set);
+
+ /* Listing: Get the set members
+ *
+ * Fill in the information in "data".
+ * This function is always run after list_member_size() under a
+ * writelock on the set. Therefor is the length of "data" always
+ * correct.
+ */
+ void (*list_members) (const struct ip_set *set,
+ void *data);
+
+ char typename[IP_SET_MAXNAMELEN];
+ unsigned char features;
+ int protocol_version;
+
+ /* Set this to THIS_MODULE if you are a module, otherwise NULL */
+ struct module *me;
+ };
+
+extern int ip_set_register_set_type(struct ip_set_type *set_type);
+extern void ip_set_unregister_set_type(struct ip_set_type *set_type);
+
+/* A generic ipset */
+struct ip_set {
+ char name[IP_SET_MAXNAMELEN]; /*
+ the name of the set */
+ rwlock_t lock; /* lock for concurrency control */
+ ip_set_id_t id; /* set id for swapping */
+ ip_set_id_t binding; /* default binding for the set */
+ atomic_t ref; /* in kernel and in hash references */
+ struct ip_set_type *type; /* the set types */

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+ void *data; /* pooltype specific data */
+};
+
+/* Structure to bind set elements to sets */
+struct ip_set_hash {
+ struct list_head list; /* list of clashing entries in hash */
+ ip_set_ip_t ip; /* ip from set */
+ ip_set_id_t id; /* set id */
+ ip_set_id_t binding; /* set we bind the element to */
+};
+
+/* register and unregister set references */
+extern ip_set_id_t ip_set_get_byname(const char name[IP_SET_MAXNAMELEN]);
+extern ip_set_id_t ip_set_get_byindex(ip_set_id_t id);
+extern void ip_set_put(ip_set_id_t id);
+
+/* API for iptables set match, and SET target */
+extern void ip_set_addip_kernel(ip_set_id_t id,
+ const struct sk_buff *skb,
+ const u_int32_t *flags);
+extern void
+ ip_set_delip_kernel(ip_set_id_t id,
+ const struct sk_buff *skb,
+ const u_int32_t *flags);
+extern int ip_set_testip_kernel(ip_set_id_t id,
+ const struct sk_buff *skb,
+ const u_int32_t *flags);
+
+#endif /* __KERNEL__ */
+
+#endif /* _IP_SET_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set_iphash.h linux-
2.6/include/linux/netfilter_ipv4/ip_set_iphash.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_iphash.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_iphash.h 2006-05-08 11:52:48.000000000 +0200
@@ -0,0 +1,30 @@
+#ifndef __IP_SET_IPHASH_H
+#define __IP_SET_IPHASH_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME "iphash"
+#define MAX_RANGE 0x0000FFFF
+
+struct ip_set_iphash {
+ ip_set_ip_t *members; /* the iphash proper */
+ uint32_t elements; /* number of elements */
+ uint32_t hashsize; /* hash size */

```

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+ uint16_t probes; /* max number of probes */
+ uint16_t resize; /* resize factor
in percent */
+ ip_set_ip_t netmask; /* netmask */
+ void *initval[0]; /* initvals for jhash_1word */
+};
+
+struct ip_set_req_iphash_create {
+ uint32_t hashsize;
+ uint16_t probes;
+ uint16_t resize;
+ ip_set_ip_t netmask;
+};
+
+struct ip_set_req_iphash {
+ ip_set_ip_t ip;
+};
+
+#endif /* __IP_SET_IPHASH_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set_ipmap.h linux-
2.6./include/linux/netfilter_ipv4/ip_set_ipmap.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_ipmap.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_ipmap.h 2005-09-30 18:44:08.000000000 +0200
@@ -0,0 +1,56 @@
+#ifndef __IP_SET_IPMAP_H
+#define __IP_SET_IPMAP_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME "ipmap"
+#define MAX_RANGE 0x0000FFFF
+
+struct ip_set_ipmap {
+ void *members; /* the ipmap proper */
+ ip_set_ip_t first_ip; /* host byte order, included in range */
+ ip_set_ip_t last_ip; /* host byte order, included in range */
+ ip_set_ip_t
netmask; /* subnet netmask */
+ ip_set_ip_t sizeid; /* size of set in IPs */
+ ip_set_ip_t hosts; /* number of hosts in a subnet */
+};
+
+struct ip_set_req_ipmap_create {
+ ip_set_ip_t from;
+ ip_set_ip_t to;
+ ip_set_ip_t netmask;
+};
+

```

```

+struct ip_set_req_ipmap {
+ ip_set_ip_t ip;
+};
+
+unsigned int
+mask_to_bits(ip_set_ip_t mask)
+{
+ unsigned int bits = 32;
+ ip_set_ip_t maskaddr;
+
+ if (mask == 0xFFFFFFFF)
+ return bits;
+
+ maskaddr = 0xFFFFFFFFE;
+ while (--bits >= 0 && maskaddr != mask)
+ maskaddr <<= 1;
+
+ return bits;
+}
+
+ip_set_ip_t
+range_to_mask(ip_set_ip_t from, ip_set_ip_t to, unsigned int *bits)
+{
+ ip_set_ip_t mask = 0xFFFFFFFFE;
+
+ *bits = 32;
+ while (--(*bits) >= 0 && mask && (to & mask) != from)
+ mask <<= 1;
+
+ return mask;
+}
+
+endif /* __IP_SET_IPMAP_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set_ipporthash.h linux-
2.6./include/linux/netfilter_ipv4/ip_set_ipporthash.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_ipporthash.h 1970-01-01
01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_ipporthash.h 2006-05-08 11:52:48.000000000 +0200
@@ -0,0 +1,34 @@
+#ifndef __IP_SET_IPPORTHASH_H
+#define __IP_SET_IPPORTHASH_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME "ipporthash"
+#define MAX_RANGE 0x0000FFFF
+#define INVALID_PORT (MAX_RANGE + 1)
+

```



```

+struct ip_set_ipporthash {
+ ip_set_ip_t *members; /* the ipporthash proper */
+ uint32_t elements; /* number of elements */
+ uint32_t hashsize; /* hash size */
+ uint16_t probes; /* max number of probes */
+ uint16_t resize; /* resize factor in percent */
+ ip_set_ip_t first_ip; /* host byte order, included in range */
+ ip_set_ip_t last_ip; /* host byte order, included in range */
+ void *initval[0]; /* initvals for jhash_1word */
+};
+
+struct ip_set_req_ipporthash_create {
+ uint32_t hashsize;
+ uint16_t probes;
+ uint16_t resize;
+ ip_set_ip_t from;
+ ip_set_ip_t to;
+};
+
+struct ip_set_req_ipporthash
+{
+ ip_set_ip_t ip;
+ ip_set_ip_t port;
+};
+
+#endif /* __IP_SET_IPPORTHASH_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set iptree.h linux-
2.6./include/linux/netfilter_ipv4/ip_set iptree.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set iptree.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set iptree.h 2006-05-08 11:52:48.000000000 +0200
@@ -0,0 +1,40 @@
+#ifndef __IP_SET_IPTREE_H
+#define __IP_SET_IPTREE_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME "iptree"
+#define MAX_RANGE 0x0000FFFF
+
+struct ip_set iptreed {
+ unsigned long expires[256]; /* x.x.x.ADDR */
+};
+
+struct ip_set iptreec {
+ struct ip_set iptreed *tree[256]; /* x.x.ADDR.* */
+};
+
+struct ip_set iptreeb {

```

```

+ struct ip_set_iptreec *tree[256]; /* x.ADDR.*.* */
+};
+
+struct ip_set_iptree {
+ unsigned int timeout;
+ unsigned int gc_interval;
+#ifdef __KERNEL__
+ uint32_t elements; /* number of elements */
+ struct timer_list gc;
+ struct
+ ip_set_iptreeb *tree[256]; /* ADDR.*.*.* */
+#endif
+};
+
+struct ip_set_req_iptree_create {
+ unsigned int timeout;
+};
+
+struct ip_set_req_iptree {
+ ip_set_ip_t ip;
+ unsigned int timeout;
+};
+
+#endif /* __IP_SET_IPTREE_H */
diff -uNr linux-2.6./include/linux/netfilter_ipv4/ip_set_iptreemap.h linux-
2.6./include/linux/netfilter_ipv4/ip_set_iptreemap.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_iptreemap.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_iptreemap.h 2007-08-28 13:29:12.000000000 +0200
@@ -0,0 +1,40 @@
+#ifndef __IP_SET_IPTREEMAP_H
+#define __IP_SET_IPTREEMAP_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME "iptreemap"
+
+#ifdef __KERNEL__
+struct ip_set_iptreemap_d {
+ unsigned char bitmap[32]; /* x.x.x.y */
+};
+
+struct ip_set_iptreemap_c {
+ struct ip_set_iptreemap_d *tree[256]; /* x.x.y.x */
+};
+
+struct ip_set_iptreemap_b {
+ struct ip_set_iptreemap_c *tree[256]; /* x.y.x.x */
+ unsigned

```

```

char dirty[32];
+};
+#endif
+
+struct ip_set_ipreemap {
+ unsigned int gc_interval;
+#ifdef __KERNEL__
+ struct timer_list gc;
+ struct ip_set_ipreemap_b *tree[256]; /* y.x.x.x */
+#endif
+};
+
+struct ip_set_req_ipreemap_create {
+ unsigned int gc_interval;
+};
+
+struct ip_set_req_ipreemap {
+ ip_set_ip_t start;
+ ip_set_ip_t end;
+};
+
+#endif /* __IP_SET_IPREEMAP_H */
diff -uNr linux-2.6./include/linux/netfilter_ipv4/ip_set_jhash.h linux-2.6./include/linux/netfilter_ipv4/ip_set_jhash.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_jhash.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_jhash.h 2004-12-01 10:49:36.000000000 +0100
@@ -0,0 +1,148 @@
+#ifndef _LINUX_IPSET_JHASH_H
+#define _LINUX_IPSET_JHASH_H
+
+/* This is a copy of linux/jhash.h but the types u32/u8 are changed
+ * to __u32/__u8 so that the header file can be included into
+ * userspace code as well. Jozsef Kadlec (kadlec@blackhole.kfki.hu)
+ */
+
+/* jhash.h: Jenkins
+ hash support.
+ *
+ * Copyright (C) 1996 Bob Jenkins (bob_jenkins@burtleburtle.net)
+ *
+ * http://burtleburtle.net/bob/hash/
+ *
+ * These are the credits from Bob's sources:
+ *
+ * lookup2.c, by Bob Jenkins, December 1996, Public Domain.
+ * hash(), hash2(), hash3, and mix() are externally useful functions.
+ * Routines to test the hash are included if SELF_TEST is defined.
+ * You can use this free for any purpose. It has no warranty.
+ *

```

```

+ * Copyright (C) 2003 David S. Miller (davem@redhat.com)
+ *
+ * I've modified Bob's hash to be useful in the Linux kernel, and
+ * any bugs present are surely my fault. -DaveM
+ */
+
+/* NOTE: Arguments are modified. */
+#define __jhash_mix(a, b, c) \
+{ \
+ a -= b; a -= c; a ^= (c>>13); \
+ b -= c; b -= a; b ^= (a<<8); \
+ c -= a; c -= b; c ^= (b>>13); \
+ a -= b; a -= c; a ^= (c>>12); \
+ b -= c; b -= a; b ^= (a<<16); \
+ c -= a; c -= b; c ^= (b>>5); \
+ a -= b; a -= c; a ^= (c>>3); \
+ b -= c; b -= a; b ^= (a<<10); \
+ c -= \
+ a; c -= b; c ^= (b>>15); \
+}
+
+/* The golden ration: an arbitrary value */
+#define JHASH_GOLDEN_RATIO 0x9e3779b9
+
+/* The most generic version, hashes an arbitrary sequence
+ * of bytes. No alignment or length assumptions are made about
+ * the input key.
+ */
+static inline __u32 jhash(void *key, __u32 length, __u32 initval)
+{
+ __u32 a, b, c, len;
+ __u8 *k = key;
+
+ len = length;
+ a = b = JHASH_GOLDEN_RATIO;
+ c = initval;
+
+ while (len >= 12) {
+ a += (k[0]+((__u32)k[1]<<8)+((__u32)k[2]<<16)+((__u32)k[3]<<24));
+ b += (k[4]+((__u32)k[5]<<8)+((__u32)k[6]<<16)+((__u32)k[7]<<24));
+ c += (k[8]+((__u32)k[9]<<8)+((__u32)k[10]<<16)+((__u32)k[11]<<24));
+
+ __jhash_mix(a,b,c);
+
+ k += 12;
+ len -= 12;
+ }
+
+

```

```

+ c += length;
+ switch (len) {
+ case 11: c += ((__u32)k[10]<<24);
+ case 10: c += ((__u32)k[9]<<16);
+ case 9 : c += ((__u32)k[8]<<8);
+ case 8 : b += ((__u32)k[7]<<24);
+ case 7 : b += ((__u32)k[6]<<16);
+ case 6 : b += ((__u32)k[5]<<8);
+ case 5 : b += k[4];
+ case
+ 4 : a += ((__u32)k[3]<<24);
+ case 3 : a += ((__u32)k[2]<<16);
+ case 2 : a += ((__u32)k[1]<<8);
+ case 1 : a += k[0];
+ };
+
+ __jhash_mix(a,b,c);
+
+ return c;
+}
+
+/* A special optimized version that handles 1 or more of __u32s.
+ * The length parameter here is the number of __u32s in the key.
+ */
+static inline __u32 jhash2(__u32 *k, __u32 length, __u32 initval)
+{
+ __u32 a, b, c, len;
+
+ a = b = JHASH_GOLDEN_RATIO;
+ c = initval;
+ len = length;
+
+ while (len >= 3) {
+ a += k[0];
+ b += k[1];
+ c += k[2];
+ __jhash_mix(a, b, c);
+ k += 3; len -= 3;
+ }
+
+ c += length * 4;
+
+ switch (len) {
+ case 2 : b += k[1];
+ case 1 : a += k[0];
+ };
+
+ __jhash_mix(a,b,c);

```



```

+#define IPSET_MACIP_MATCHUNSET 1
+
+/* per ip flags */
+#define IPSET_MACIP_ISSET 1
+
+struct
+ip_set_macipmap {
+ void *members; /* the macipmap proper */
+ ip_set_ip_t first_ip; /* host byte order, included in range */
+ ip_set_ip_t last_ip; /* host byte order, included in range */
+ u_int32_t flags;
+};
+
+struct ip_set_req_macipmap_create {
+ ip_set_ip_t from;
+ ip_set_ip_t to;
+ u_int32_t flags;
+};
+
+struct ip_set_req_macipmap {
+ ip_set_ip_t ip;
+ unsigned char ethernet[ETH_ALEN];
+};
+
+struct ip_set_macip {
+ unsigned short flags;
+ unsigned char ethernet[ETH_ALEN];
+};
+
+#endif /* __IP_SET_MACIPMAP_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set_malloc.h linux-
2.6./include/linux/netfilter_ipv4/ip_set_malloc.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_malloc.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_malloc.h 2005-10-13 10:53:58.000000000 +0200
@@ -0,0 +1,116 @@
+#ifndef _IP_SET_MALLOC_H
+#define _IP_SET_MALLOC_H
+
+#ifdef __KERNEL__
+
+/* Memory allocation and deallocation */
+static
+size_t max_malloc_size = 0;
+
+static inline void init_max_malloc_size(void)
+{
+#define CACHE(x) max_malloc_size = x;
+#include <linux/kmalloc_sizes.h>

```

```

+#undef CACHE
+}
+
+static inline void * ip_set_malloc(size_t bytes)
+{
+ if (bytes > max_malloc_size)
+ return vmalloc(bytes);
+ else
+ return kmalloc(bytes, GFP_KERNEL);
+}
+
+static inline void ip_set_free(void * data, size_t bytes)
+{
+ if (bytes > max_malloc_size)
+ vfree(data);
+ else
+ kfree(data);
+}
+
+struct harray {
+ size_t max_elements;
+ void *arrays[0];
+};
+
+static inline void *
+harray_malloc(size_t hashsize, size_t typesize, int flags)
+{
+ struct harray *harray;
+ size_t max_elements, size, i, j;
+
+ if (!max_malloc_size)
+ init_max_malloc_size();
+
+ if (typesize > max_malloc_size)
+ return NULL;
+
+ max_elements = max_malloc_size/typesize;
+ size = hashsize/max_elements;
+ if (hashsize % max_elements)
+ size++;
+
+ /* Last pointer signals end of arrays */
+ harray = kmalloc(sizeof(struct harray) + (size +
+ 1) * sizeof(void *),
+ flags);
+
+ if (!harray)
+ return NULL;

```



```

+
+ for (i = 0; i < size - 1; i++) {
+ harray->arrays[i] = kmalloc(max_elements * typesize, flags);
+ if (!harray->arrays[i])
+ goto undo;
+ memset(harray->arrays[i], 0, max_elements * typesize);
+ }
+ harray->arrays[i] = kmalloc((hashsize - i * max_elements) * typesize,
+ flags);
+ if (!harray->arrays[i])
+ goto undo;
+ memset(harray->arrays[i], 0, (hashsize - i * max_elements) * typesize);
+
+ harray->max_elements = max_elements;
+ harray->arrays[size] = NULL;
+
+ return (void *)harray;
+
+ undo:
+ for (j = 0; j < i; j++) {
+ kfree(harray->arrays[j]);
+ }
+ kfree(harray);
+ return NULL;
+}
+
+static inline void harray_free(void *h)
+{
+ struct harray *harray = (struct harray *) h;
+ size_t i;
+
+ for (i = 0; harray->arrays[i] != NULL; i++)
+ kfree(harray->arrays[i]);
+ kfree(harray);
+}
+
+static inline void harray_flush(void *h, size_t hashsize, size_t typesize)
+{
+ struct
+ harray *harray = (struct harray *) h;
+ size_t i;
+
+ for (i = 0; harray->arrays[i+1] != NULL; i++)
+ memset(harray->arrays[i], 0, harray->max_elements * typesize);
+ memset(harray->arrays[i], 0,
+ (hashsize - i * harray->max_elements) * typesize);
+}
+

```

```

+#define HARRAY_ELEM(h, type, which) \
+({ \
+ struct harray *__h = (struct harray *) (h); \
+ ((type)((__h)->arrays[(which)](__h)->max_elements)) \
+ + (which)%(__h)->max_elements); \
+})
+
+#endif /* __KERNEL__ */
+
+#endif /* _IP_SET_MALLOC_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set_nethash.h linux-
2.6./include/linux/netfilter_ipv4/ip_set_nethash.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_nethash.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_nethash.h 2006-05-08 11:52:48.000000000 +0200
@@ -0,0 +1,55 @@
+#ifndef __IP_SET_NETHASH_H
+#define __IP_SET_NETHASH_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME
+"nethash"
+#define MAX_RANGE 0x0000FFFF
+
+struct ip_set_nethash {
+ ip_set_ip_t *members; /* the nethash proper */
+ uint32_t elements; /* number of elements */
+ uint32_t hashsize; /* hash size */
+ uint16_t probes; /* max number of probes */
+ uint16_t resize; /* resize factor in percent */
+ unsigned char cidr[30]; /* CIDR sizes */
+ void *initval[0]; /* initvals for jhash_1word */
+};
+
+struct ip_set_req_nethash_create {
+ uint32_t hashsize;
+ uint16_t probes;
+ uint16_t resize;
+};
+
+struct ip_set_req_nethash {
+ ip_set_ip_t ip;
+ unsigned char cidr;
+};
+
+static unsigned char shifts[] = {255, 253, 249, 241, 225, 193, 129, 1};
+
+static inline ip_set_ip_t

```

```

+pack(ip_set_ip_t ip, unsigned char cidr)
+{
+ ip_set_ip_t addr, *paddr = &addr;
+ unsigned char n, t, *a;
+
+ addr = htonl(ip & (0xFFFFFFFF << (32 - (cidr))));
+#ifdef __KERNEL__
+ DP("ip:%u.%u.%u.%u/%u", NIPQUAD(addr), cidr);
+#endif
+ n = cidr / 8;
+ t = cidr % 8;
+ a = &((unsigned char *)paddr)[n];
+ *a = *a / (1
+ << (8 - t)) + shifts[t];
+#ifdef __KERNEL__
+ DP("n: %u, t: %u, a: %u", n, t, *a);
+ DP("ip:%u.%u.%u.%u/%u, %u.%u.%u.%u",
+ HIPQUAD(ip), cidr, NIPQUAD(addr));
+#endif
+
+
+ return ntohl(addr);
+}
+
+#endif /* __IP_SET_NETHASH_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ip_set_portmap.h linux-
2.6./include/linux/netfilter_ipv4/ip_set_portmap.h
--- linux-2.6./include/linux/netfilter_ipv4/ip_set_portmap.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ip_set_portmap.h 2004-12-01 10:49:36.000000000 +0100
@@ -0,0 +1,25 @@
+#ifndef __IP_SET_PORTMAP_H
+#define __IP_SET_PORTMAP_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+#define SETTYPE_NAME "portmap"
+#define MAX_RANGE 0x0000FFFF
+#define INVALID_PORT (MAX_RANGE + 1)
+
+struct ip_set_portmap {
+ void *members; /* the portmap proper */
+ ip_set_ip_t first_port; /* host byte order, included in range */
+ ip_set_ip_t last_port; /* host byte order, included in range */
+};
+
+struct ip_set_req_portmap_create
+{
+ ip_set_ip_t from;
+ ip_set_ip_t to;

```

```

+});
+
+struct ip_set_req_portmap {
+ ip_set_ip_t port;
+};
+
+##endif /* __IP_SET_PORTMAP_H */
diff -uNrp linux-2.6./include/linux/netfilter_ipv4/ipt_set.h linux-2.6./include/linux/netfilter_ipv4/ipt_set.h
--- linux-2.6./include/linux/netfilter_ipv4/ipt_set.h 1970-01-01 01:00:00.000000000 +0100
+++ linux-2.6./include/linux/netfilter_ipv4/ipt_set.h 2004-12-06 10:32:59.000000000 +0100
@@ -0,0 +1,21 @@
+#ifndef _IPT_SET_H
+#define _IPT_SET_H
+
+#include <linux/netfilter_ipv4/ip_set.h>
+
+struct ipt_set_info {
+ ip_set_id_t index;
+ u_int32_t flags[IP_SET_MAX_BINDINGS + 1];
+};
+
+/* match info */
+struct ipt_set_info_match {
+ struct ipt_set_info match_set;
+};
+
+struct ipt_set_info_target {
+ struct ipt_set_info add_set;
+ struct ipt_set_info del_set;
+};
+
+##endif /* _IPT_SET_H */
--- linux-2.6.22/include/linux/netfilter_ipv4/Kbuild 2005-12-16 15:49:47.000000000 +0100
+++ linux-2.6.22/include/linux/netfilter_ipv4/Kbuild 2007-10-16 00:35:55.027634250
+0200
@@ -0,0 +1,11 @@
+header-y += ip_set.h
+header-y += ip_set_iphash.h
+header-y += ip_set_ipmap.h
+header-y += ip_set_ipporthash.h
+header-y += ip_set iptree.h
+header-y += ip_set iptreemap.h
+header-y += ip_set_jhash.h
+header-y += ip_set_macipmap.h
+header-y += ip_set_malloc.h
+header-y += ip_set_nethash.h
+header-y += ip_set_portmap.h

```

Found in path(s):

\* /opt/cola/permits/1483856480\_1670598473.5494552/0/linux-libc-headers-auto-th-linux-libc-headers-5-19-3-1-  
zip/linux-libc-headers-auto-th-linux-libc-headers-5.19.3-1/linux-libc-headers-pom-set.patch

# 1.387 jackson-annotations 2.14.1

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# 1.388 jackson-jaxrs 2.14.1

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# Jackson JSON processor

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## 1.389 jackson-xc 2.14.1

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# Jackson JSON processor

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# 1.390 jackson-databind 2.14.1

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## 1.393 urllib3 1.26.13

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## 1.394 groff 1.22.4-r2

# 1.395 etcd 3.5.6

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## 1.396 etcd-client-pkg 3.5.6

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pkgname=perl-software-license
_pkgreal=Software-License
_author=RJBS
_au=${_author%%"${_author#??}"}
_a=${_author%%"${_author#?}"}
pkgver=0.104001
pkgrel=0
pkgdesc="Perl module for generating prefilled license text"
url="https://metacpan.org/pod/Software::License"
arch="noarch"
license="Artistic-1.0-Perl OR GPL-1.0+"
depends="perl perl-data-section perl-text-template perl-try-tiny"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgreal}-${pkgver}"

build() {
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
 make
}

check() {
 make test
}
```

```

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="4ba5e11e8aa34a4f59ad4028e8e4547e22d5d56e04836cf280a0fb52a2fb64c8cf5347f6f6e2c368506c35
eeb7e189527e4339d11541aac34c2c28737717e34e
 Software-License-0.104001.tar.gz"
Maintainer: Adelle Platform Group <adelle-devel@lists.adelinelinux.org>
pkgname=bsd-compat-headers
pkgver=0.7.1
pkgrel=1
pkgdesc="Compatibility files for building BSD software"
url=" "
arch="noarch"
options="!check" # Just header files.
license="BSD-2-Clause AND BSD-3-Clause"
depends=""
makedepends=""
subpackages=""
source="sys-cdefs.h
sys-queue.h
sys-tree.h
"

package() {
 mkdir -p "$pkgdir"
 case "$CLIBC" in
 musl)
 install -D "$srcdir"/sys-cdefs.h "$pkgdir"/usr/include/sys/cdefs.h
 install -D "$srcdir"/sys-queue.h "$pkgdir"/usr/include/sys/queue.h
 install -D "$srcdir"/sys-tree.h "$pkgdir"/usr/include/sys/tree.h
 ;;
 esac
 }

sha512sums="8c3fddd73b696a38e633953715c79c47703739be27ee085fc6c960a57b6746ca05bf6406f7e6126cc1a13
204254fd5830afb566624e1f298f4d6b58216013c28 sys-cdefs.h
2f0d5e6e4dc3350285cf17009265dddcb12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 sys-queue.h
07cb70f2f0ddb31e23dd913c6f561fc9885667c5803fdf3a559676c99d08834b4104589bacb5d17b4a0b379c68c81a1cf
3173832b3da33a7b936fa7b93706844
 sys-tree.h"
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: FIXME
Upstream-Contact: FIXME
Source: FIXME
Disclaimer: Autogenerated by licensecheck

```



Files: src/pluma-plugins-1.26.0/ABOUT-NLS  
src/pluma-plugins-1.26.0/ChangeLog  
src/pluma-plugins-1.26.0/Makefile.am  
src/pluma-plugins-1.26.0/Makefile.in  
src/pluma-plugins-1.26.0/NEWS  
src/pluma-plugins-1.26.0/autogen.sh  
src/pluma-plugins-1.26.0/config.h.in  
src/pluma-plugins-1.26.0/configure.ac  
src/pluma-plugins-1.26.0/help/C/bookmarks.page  
src/pluma-plugins-1.26.0/help/C/bracketcompletion.page  
src/pluma-plugins-1.26.0/help/C/codecomment.page  
src/pluma-plugins-1.26.0/help/C/index.page  
src/pluma-plugins-1.26.0/help/C/legal-plugins.xml  
src/pluma-plugins-1.26.0/help/C/synctex.page  
src/pluma-plugins-1.26.0/help/C/terminal.page  
src/pluma-plugins-1.26.0/help/C/wordcompletion.page  
src/pluma-plugins-1.26.0/help/Makefile.am  
src/pluma-plugins-1.26.0/help/Makefile.in  
src/pluma-plugins-1.26.0/help/af/af.po  
src/pluma-plugins-1.26.0/help/af/bookmarks.page  
src/pluma-plugins-1.26.0/help/af/bracketcompletion.page  
src/pluma-plugins-1.26.0/help/af/codecomment.page  
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src/pluma-plugins-1.26.0/help/af/wordcompletion.page  
src/pluma-plugins-1.26.0/help/am/am.po  
src/pluma-plugins-1.26.0/help/am/bookmarks.page  
src/pluma-plugins-1.26.0/help/am/bracketcompletion.page  
src/pluma-plugins-1.26.0/help/am/codecomment.page  
src/pluma-plugins-1.26.0/help/am/index.page  
src/pluma-plugins-1.26.0/help/am/legal-plugins.xml  
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src/pluma-plugins-1.26.0/help/am/terminal.page  
src/pluma-plugins-1.26.0/help/am/wordcompletion.page  
src/pluma-plugins-1.26.0/help/an/an.po  
src/pluma-plugins-1.26.0/help/an/bookmarks.page  
src/pluma-plugins-1.26.0/help/an/bracketcompletion.page  
src/pluma-plugins-1.26.0/help/an/codecomment.page  
src/pluma-plugins-1.26.0/help/an/index.page  
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FIXME

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src/pluma-plugins-1.26.0/po/uk.po  
src/pluma-plugins-1.26.0/po/ur.po  
src/pluma-plugins-1.26.0/po/uz.po  
src/pluma-plugins-1.26.0/po/vi.po  
src/pluma-plugins-1.26.0/po/wa.po  
src/pluma-plugins-1.26.0/po/xh.po  
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de lignes

es pour les botes de texte seront employes pour le terminal (

faut de l'arriere-plan du terminalCouleur par dfaut du texte dans le terminalTerminal IntgrPoliceSi vrai, presser une

touche fait dfilet le terminal jusqu'en bas.Si vrai, les lignes pour le dfilement sont toujours conservees. Comme

l'historique de dfilement est stock temporairement sur le disque, il se pourrait que le systme se retrouve

moire pour le dfilementPalette pour les applications texteTerminalLe terminal a une palette de 16 couleurs que les

applications texte peuvent utiliser. Cette palette est represente par une liste de couleurs (en valeurs hexadecimales

comme

paces par des deux-points ":".Apparence du curseurIndique si un nombre illimit de lignes doit tre gard en mmoire

pour le dfilementIndique si le curseur doit clignoterIndique s'il faut se rendre en bas du terminal lors de l'appui sur

une toucheIndique s'il faut rendre le terminal silencieuxIndique s'il faut utiliser les couleurs du thme pour

le terminalIndique s'il faut utiliser la police systme

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schma tmy pre textov polia namiesto farieb zadanch pouvateom.Poet riadkov uchovvanej historiePaleta pre programy

v terminliTerminlTerminly pouvaj 16-farebn paletu, ktor mu poui programy v terminli. Toto je t paleta, zadan ako

dvojbodkami oddelen zoznam mien farieb. Farby by mali by v hexadecimlnom formte, napr. #FF00FFVzhad

kurzoraUruje, i sa m uchova neobmedzen poet riadkov v uchovvanej historiiUruje, i m kurzor blikaUruje, i sa m

posun dolu pri stlaen klvesuUruje, i m by terminlov zvonek potichuUruje, i poui farby z tmy pre prvok

terminluUruje, i pouva systmov psmo

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L'historial dels desplaaments s'emmagatzema temporalment al disc, de manera que aix pot provocar que el sistema es quede sense espai al disc, si hi ha molta eixida al terminal.Si s'estableix a cert, l'esquema de colors del tema que s'utilitza per als quadres d'entrada de text s'utilitzar

s aquesta paleta, en forma d'una llista de noms de colors separats per dos punts. Els colors han d'estar en format hexadecimal, p. ex. #FF00FF.L'aparena del cursorSi s'ha de mantindre un nombre de lnies illimitat en el desplaamentSi el cursor ha de parpellejarSi s'ha de desplaar al final quan es prem una teclaSi se silencia l'avs sonor del terminalSi s'han

d'utilitzar els colors del tema per al giny del terminalSi s'ha d'utilitzar el tipus de lletra del sistema

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taire li xhuflet do terminEst k'

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a kurzorBillentyeltsre grgessen-e a terminl aljraElnmtsa-e a terminlcsengtHasznlja-e a terminlelem tmjnak szneitHasznlja-e a rendszer betkszetet

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Copyright: verdadeiro, ao premer unha tecla a barra de desprazamento vai ata o final. Se verdadeiro, nunca se desbotarn as lias de desprazamento cara atrs. O historial de desprazamento cara atrs almacnase temporalmente no disco, polo que isto pode causar que o seu sistema quede sen espazo de disco se hai moita sada na terminal. Se verdadeiro, o esquema de cores do tema usado para as caixas de texto ser empregado para o terminal, en vez das cores proporcionadas polo usuario. Nmero de lias que se manteen no desprazamento Paleta para as aplicacins do terminal Terminal Os terminais teen unha paleta de 16 cores que poden usar as aplicacins que se executen dentro del. Esta esa paleta, na forma dunha lista de cores separadas por dous puntos. Os nomes de cores deben ter formatu hexadecimal, por exemplo: #FF00FF Aparentia do cursor Indica se se debe manter un nmero de lias non limitado no desprazamento Indica se o cursor pestanexa Indica se se despraza ao final ao premer unha tecla Indica se se silencia a camp do terminal Indica se se usan as cores do tema no trebello do terminal Indica se se usa o tipo de letra do sistema

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Files: src/pluma-plugins-1.26.0/help/es/es.po

Copyright: vez <toni.estevez@gmail.com>, 2020

License: UNKNOWN

FIXME

Files: src/pluma-plugins-1.26.0/po/pa.gmo

Copyright:

```
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, -
- , "#FF00FF"
```

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Files: src/pluma-plugins-1.26.0/help/pa/pa.po

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Files: src/pluma-plugins-1.26.0/help/pa/bookmarks.page

Copyright: </title>

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Files: src/pluma-plugins-1.26.0/plugins/sourcecodebrowser/sourcecodebrowser/icons/source-namespace.png

Copyright: T; }! mcxkJf6rz'z,V%\_S

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License: UNKNOWN

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Files: src/pluma-plugins-1.26.0/plugins/sourcecodebrowser/sourcecodebrowser/icons/source-struct.png

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Files: src/pluma-plugins-1.26.0/plugins/sourcecodebrowser/sourcecodebrowser/icons/source-variable.png

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Files: src/pluma-plugins-1.26.0/help/zh\_TW/zh\_TW.po

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Files: src/pluma-plugins-1.26.0/help/zh\_TW/terminal.page

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Files: src/pluma-plugins-1.26.0/po/ko.gmo

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Files: src/pluma-plugins-1.26.0/help/mn/mn.po  
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Files: src/pluma-plugins-1.26.0/po/kk.gmo  
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src/pluma-plugins-1.26.0/po/mn.gmo  
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Files: src/pluma-plugins-1.26.0/po/ky.gmo  
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Files: src/pluma-plugins-1.26.0/help/ja/wordcompletion.page

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</gui></guiseq></p>

</p>

</title>

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Files: src/pluma-plugins-1.26.0/help/ja/legal-plugins.xml

Copyright: - 3.0 <link xref="http://creativecommons.org/licenses/by-sa/3.0/">http://creativecommons.org/licenses/by-sa/3.0/</link> Creative Commons,444Castro Street,Suite900,Mountain View,California,94041,USA

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</gui></guiseq></p>

HTML XML

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Files: src/pluma-plugins-1.26.0/help/ja/index.page

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Pluma </desc>

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Files: src/pluma-plugins-1.26.0/help/ja/codecomment.page

Copyright: <guiseq><gui style="menu"></gui><gui style="menuitem"></gui><gui></gui><gui></gui></guiseq></p>

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Files: src/pluma-plugins-1.26.0/help/ja/bookmarks.page

Copyright: <guiseq><gui style="menu"></gui><gui style="menuitem"></gui><gui></gui><gui></gui></guiseq></p>

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FIXME

# Contributor: Sle Ekaterin Liszka <sheila@vulpine.house>

# Maintainer: Sle Ekaterin Liszka <sheila@vulpine.house>

pkgname=perl-string-copyright

\_pkgreal=String-Copyright

\_author=JONASS

\_au=\${\_author%%"\${\_author#??}"}

\_a=\${\_author% "\${\_author#?}"}

pkgver=0.003013

pkgrel=0

pkgdesc="Perl module for normalizing copyright text"

url="https://metacpan.org/pod/String::Copyright"

arch="noarch"

license="AGPL-3.0+"

depends="perl perl-exporter-tiny perl-set-intspan"

checkdepends="perl-test-without-module perl-test2-suite"

makedepends="perl-dev"

subpackages="\$pkgname-doc"

```
source="https://cpan.metacpan.org/authors/id/$_a/$_au/$_author/$_pkgreal-$pkgver.tar.gz"
```

```
builddir="$srcdir/$_pkgreal-$pkgver"
```

```
build() {
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
 make
}
```

```
check() {
 make test
}
```

```
package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}
```

```
sha512sums="c7e585d53cfeed5f45b471adfb1f36975e6cac8f43b27664a72cc95d27e779bf1e4e796e0237f2ff997f47f
b34f71d4e65dc27ba9da44e00315270f0ecf9ae54
```

```
String-Copyright-0.003013.tar.gz"
```

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Hwaci  
6200 Maple Cove Lane  
Charlotte, NC 28269  
USA

A template copyright release is available in PDF or HTML. You can use this release to make future changes.

see <http://www.sqlite.org/copyright.html>

# Maintainer:

pkgname=libart-igpl

pkgver=2.3.21

pkgrel=6

pkgdesc="Library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0+"

depends=""

makedepends=""

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart\_igpl/2.3/libart\_igpl-\$pkgver.tar.bz2"

builddir="\$srcdir"/libart\_igpl-\$pkgver

```
prepare() {
 default_prepare
 update_config_sub
}
```

```
build() {
./configure \
--build=$CBUILD \
--host=$CHOST \
--prefix=/usr
make
}
```

```
package() {
make DESTDIR="$pkgdir" install
}
```

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3c020 libart\_lgpl-2.3.21.tar.bz2"

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```

Contributor: Sle Ekaterin Liszka <sheila@vulpine.house>
Maintainer: Sle Ekaterin Liszka <sheila@vulpine.house>
pkgname=perl-regexp-pattern-license
_pkgreal=Regexp-Pattern-License
_author=JONASS
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=3.9.4
pkgrel=0
pkgdesc="Perl module for regex-matching legal licenses"
url="https://metacpan.org/pod/Regexp::Pattern::License"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-re-engine-re2 perl-regexp-pattern perl-strictures
perl-test-regexp-pattern perl-try-tiny"
checkdepends="perl-test-requires perl-test2-suite perl-test-without-module"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/$_a/$_au/$_author/$_pkgreal-v$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-v$pkgver"

build() {
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
 make
}

check() {
 make test
}

package() {
 make DESTDIR="$pkgdir" install
 find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="54ada9a5806a88a3bdc621c8c546898bb44e6392e37415335d5a426000936734611b608b89caed8835a
0eb64a996f6a4f3465866a702e8e0dc943a6d4ed6e3de
Regexp-Pattern-License-v3.9.4.tar.gz"

```

# 1.398 log-rotate 3.20.1-r3

## 1.398.1 Available under license :

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Version 2, June 1991

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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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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

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<signature of Ty Coon>, 1 April 1989

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## 1.399 aws-aws-sdk-go-v2 1.17.4

### 1.399.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{ }
 }
}
```

```
result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}
```

```
out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
```

```

}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```
out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
```

```
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
```

```
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
```

```
 //
```

```
 // This member is required.
```

```
 DigitalSignatureMethod types.DigitalSignatureMethod
```

```
 // License entitlements. Partial checkouts are not supported.
```

```
 //
```

```
 // This member is required.
```

```
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
```

```
 // consumption configuration.
```

```
 //
```

```
 // This member is required.
```

```
 LicenseArn *string
```

```
 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata
```

```
 // Node ID.
```

```
 NodeId *string
```

```
 noSmithyDocumentSerde
```

```
}
```

```
type CheckoutBorrowLicenseOutput struct {
```

```
 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata
```

```
 // Allowed license entitlements.
```

```
 EntitlementsAllowed
```

```

[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```



```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde

```

```

}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

```

```

steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${{ github.base_ref }}
 - name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
 - name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
 - name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
 - name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
 - name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
 - name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
 - name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
 - name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
 - name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

```

```

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```



```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns

```

```

...func(*Options) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//

```

```

// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```



```

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.

```

```

MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

```

```

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```

// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {

```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
}

```

# 1.400 in-toto-in-toto-golang 0.5.0

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# 1.401 wget 1.21.3-r2

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fontconfig/fc-case/CaseFolding.txt

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/\*

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fontconfig/src/fcfoundry.h

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/\*

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- \* with every copy.
- \*
- \* To compute the message digest of a chunk of bytes, declare an
- \* MD5Context structure, pass it to MD5Init, call MD5Update
- as
- \* needed on buffers full of bytes, and then call MD5Final, which
- \* will fill a supplied 16-byte array with the digest.

\*/

-----  
fontconfig/src/cmdmutex.h

/\*

- \* Atomic int and pointer operations. Originally copied from HarfBuzz.

\*  
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-----  
fontconfig/src/ftglue.[ch]

/\* ftglue.c: Glue code for compiling the OpenType code from  
\* FreeType 1 using only the public API of FreeType 2  
\*  
\* By David Turner, The FreeType Project (www.freetype.org)  
\*  
\* This code is explicitly put in the public domain  
\*  
\* =====  
\*  
\* the OpenType  
parser codes was originally written as an extension to  
\* FreeType 1.x. As such, its source code was embedded within the library,  
\* and used many internal FreeType functions to deal with memory and  
\* stream i/o.

\*  
 \* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,  
 \* which basically means that some macro tricks were performed in order to  
 \* directly access FT2 \_internal\_ functions.  
 \*  
 \* these functions were never part of FT2 public API, and \_did\_ change between  
 \* various releases. This created chaos for many users: when they upgraded the  
 \* FreeType library on their system, they couldn't run Gnome anymore since  
 \* Pango refused to link.  
 \*  
 \* Very fortunately, it's possible to completely avoid this problem because  
 \* the FT\_StreamRec and FT\_MemoryRec structure types, which describe how  
 \* memory and stream implementations interface with the rest of the font  
 \* library, have always been part of the public API, and never changed.  
 \*  
 \* What we do  
 \* thus is re-implement, within the OpenType parser, the few  
 \* functions that depend on them. This only adds one or two kilobytes of  
 \* code, and ensures that the parser can work with \_any\_ version  
 \* of FreeType installed on your system. How sweet... !  
 \*  
 \* Note that we assume that Pango doesn't use any other internal functions  
 \* from FreeType. It used to in old versions, but this should no longer  
 \* be the case. (crossing my fingers).  
 \*  
 \* - David Turner  
 \* - The FreeType Project ([www.freetype.org](http://www.freetype.org))  
 \*  
 \* PS: This "glue" code is explicitly put in the public domain  
 \*/

## 1.405 libidn 2.3.4-r0

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Version 3, 29 June 2007

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Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
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Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.

Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
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Faigon,  
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Fobes, Steve  
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G., Daniel Richard  
Gailly, Jean-loup  
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Hayman, Randy M.  
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Holloway, Nick  
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Kadow, Kevin  
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Levin, Dmitry V.  
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Mueller, Andreas  
Mller, Dworkin  
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Nikitser, Peter A.  
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Ouellet, Jean-Philippe  
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Paradis, Chantal  
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Perera, Andres  
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Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin

Casagrande, Milo  
Castro, Felipe  
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Koir, Klemen  
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r, Balzs  
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The

following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent

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## 1.413 bash 5.2.12-r0

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## 1.417 botocore 1.29.26

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left CNRI to work with commercial software developers, it became clear that the ability to use Python with software available under the GNU Public License (GPL) was very desirable.

CNRI and the Free Software Foundation (FSF) interacted to develop enabling wording changes to the Python license. Python 1.6.1 is essentially the same as Python 1.6, with a few minor bug fixes, and with a different license that enables later versions to be GPL-compatible. Python 2.1 is a derivative work of Python 1.6.1, as well as of Python 2.0.

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}

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"version": "1.0"
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 "type": "String"
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 "default": false,
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stack, dispatching the request MAY return an error.",
 "type": "Boolean"
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endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
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 "type": "endpoint"
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{
 "ResponseMetadata": {
 "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
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 "pagination": {
 "ListIdentityProviders": {
 "input_token": "NextToken",
 "output_token": "NextToken",
 "limit_key": "MaxResults",
 "result_key": "IdentityProviderSummaries"
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 "ListInstances": {
 "input_token": "NextToken",

```

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"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "ProductUserSummaries"
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"ListUserAssociations": {
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"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "InstanceUserSummaries"
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s3transfer

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{
 "version": "2.0",
 "metadata": {
 "apiVersion": "2018-05-10",
 "endpointPrefix": "license-manager-user-subscriptions",
 "jsonVersion": "1.1",
 "protocol": "rest-json",
 "serviceFullName": "AWS License Manager User Subscriptions",
 "serviceId": "License Manager User Subscriptions",
 "signatureVersion": "v4",
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"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10"
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 "name":"AssociateUser",
 "http":{
 "method":"POST",
 "requestUri":"/user/AssociateUser",
 "responseCode":200
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 "input":{"shape":"AssociateUserRequest"},
 "output":{"shape":"AssociateUserResponse"},
 "errors":[
 {"shape":"ServiceQuotaExceededException"},
 {"shape":"ConflictException"},
 {"shape":"ValidationException"},
 {"shape":"ThrottlingException"},
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"AccessDeniedException"}
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 "documentation":"<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more
information, see Viewing
your monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
 "idempotent":true
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 "DeregisterIdentityProvider":{
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 "method":"POST",
 "requestUri":"/identity-provider/DeregisterIdentityProvider",
 "responseCode":200
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 "output":{"shape":"DeregisterIdentityProviderResponse"},
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 {"shape":"ValidationException"},
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 "responseCode":200
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 "responseCode":200
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 "method":"POST",
 "requestUri":"/instance/ListInstances",

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 "responseCode":200
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 {"shape":"ValidationException"},
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 "http":{
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 "requestUri":"/user/ListProductSubscriptions",
 "responseCode":200
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 "input":{"shape":"ListProductSubscriptionsRequest"},
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 {"shape":"ValidationException"},
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 {"shape":"ResourceNotFoundException"},
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 "documentation":"<p>Lists the user-based subscription products available from an identity provider.</p>"
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},
"RegisterIdentityProvider":{
 "name":"RegisterIdentityProvider",
 "http":{
 "method":"POST",
 "requestUri":"/identity-provider/RegisterIdentityProvider",
 "responseCode":200
 },
 "input":{"shape":"RegisterIdentityProviderRequest"},
 "output":{"shape":"RegisterIdentityProviderResponse"},
 "errors":[
 {"shape":"ServiceQuotaExceededException"},
 {"shape":"ConflictException"},
 {"shape":"ValidationException"},
 {"shape":"ThrottlingException"},
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"AccessDeniedException"}
],
 "documentation":"<p>Registers an identity provider for user-based subscriptions.</p>",
 "idempotent":true
},
"StartProductSubscription":{
 "name":"StartProductSubscription",
 "http":{
 "method":"POST",
 "requestUri":"/user/StartProductSubscription",
 "responseCode":200
 },
 "input":{"shape":"StartProductSubscriptionRequest"},
 "output":{"shape":"StartProductSubscriptionResponse"},
 "errors":[
 {"shape":"ServiceQuotaExceededException"},
 {"shape":"ConflictException"},
 {"shape":"ValidationException"},
 {"shape":"ThrottlingException"},
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"AccessDeniedException"}
],
 "documentation":"<p>Starts a product subscription for a user with the specified identity provider.</p> <note>

```



<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href="https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>"

```
 },
 "StopProductSubscription":{
 "name":"StopProductSubscription",
 "http":{
 "method":"POST",
 "requestUri":"/user/StopProductSubscription",
 "responseCode":200
 },
 "input":{"shape":"StopProductSubscriptionRequest"},
 "output":{"shape":"StopProductSubscriptionResponse"},
 "errors":[
 {"shape":"ServiceQuotaExceededException"},
 {"shape":"ConflictException"},
 {"shape":"ValidationException"},
 {"shape":"ThrottlingException"},
 {"shape":"InternalServerError"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"AccessDeniedException"}
],
 "documentation":"<p>Stops a product subscription for a user with the specified identity provider.</p>"
 },
 "UpdateIdentityProviderSettings":{
 "name":"UpdateIdentityProviderSettings",
 "http":{
 "method":"POST",
 "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
 "responseCode":200
 },
 "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
 "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"ThrottlingException"},
 {"shape":"InternalServerError"},
 {"shape":"AccessDeniedException"}
],
 "documentation":"<p>Updates additional product configuration settings for the registered identity provider.</p>",
 "idempotent":true
 }
 },
 "shapes":{
 "AccessDeniedException":{
 "type":"structure",
```

```

"members":{
 "message":{"shape":"String"}
},
"documentation":"<p>You don't have sufficient access to perform this action.</p>",
"exception":true
},
"ActiveDirectoryIdentityProvider":{
 "type":"structure",
 "members":{
 "DirectoryId":{
 "shape":"String",
 "documentation":"<p>The directory ID for an Active Directory identity provider.</p>"
 }
 },
 "documentation":"<p>Details about an Active Directory identity provider.</p>"
},
"AssociateUserRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "InstanceId",
 "Username"
],
 "members":{
 "Domain":{
 "shape":"String",
 "documentation":"<p>The domain name of the user.</p>"
 },
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>The identity provider of the user.</p>"
 },
 "InstanceId":{
 "shape":"String",
 "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
 },
 "Username":{
 "shape":"String",
 "documentation":"<p>The user name from the identity provider for the user.</p>"
 }
 }
},
"AssociateUserResponse":{
 "type":"structure",
 "required":["InstanceUserSummary"],
 "members":{
 "InstanceUserSummary":{
 "shape":"InstanceUserSummary",

```

```

 "documentation": "<p>Metadata that describes the associate user operation.</p>"
 }
}
},
"BoxInteger":{
 "type":"integer",
 "box":true
},
"ConflictException":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
 },
 "documentation": "<p>The request couldn't be completed because it conflicted with the current state of the
resource.</p>",
 "exception":true,
 "fault":true
},
"DeregisterIdentityProviderRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product"
],
 "members":{
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation": "<p>An object that specifies details for the identity provider.</p>"
 },
 "Product":{
 "shape":"String",
 "documentation": "<p>The name of the user-based subscription product.</p>"
 }
 }
},
"DeregisterIdentityProviderResponse":{
 "type":"structure",
 "required":["IdentityProviderSummary"],
 "members":{
 "IdentityProviderSummary":{
 "shape":"IdentityProviderSummary",
 "documentation": "<p>Metadata that describes the results of an identity provider operation.</p>"
 }
 }
},
"DisassociateUserRequest":{
 "type":"structure",
 "required":[

```

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 "IdentityProvider",
 "InstanceId",
 "Username"
],
 "members": {
 "Domain": {
 "shape": "String",
 "documentation": "<p>The domain name of the user.</p>"
 },
 "IdentityProvider": {
 "shape": "IdentityProvider",
 "documentation": "<p>An object that specifies details for the identity provider.</p>"
 }
 },
 "InstanceId": {
 "shape": "String",
 "documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
 },
 "Username": {
 "shape": "String",
 "documentation": "<p>The user name from the identity provider for the user.</p>"
 }
},
"DisassociateUserResponse": {
 "type": "structure",
 "required": ["InstanceUserSummary"],
 "members": {
 "InstanceUserSummary": {
 "shape": "InstanceUserSummary",
 "documentation": "<p>Metadata that describes the associate user operation.</p>"
 }
 }
},
"Filter": {
 "type": "structure",
 "members": {
 "Attribute": {
 "shape": "String",
 "documentation": "<p>The name of an attribute to use as a filter.</p>"
 },
 "Operation": {
 "shape": "String",
 "documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
 }
 },
 "Value": {

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"shape": "String",
 "documentation": "<p>Value of the filter.</p>"
}
},
"documentation": "<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterList": {
 "type": "list",
 "member": { "shape": "Filter" }
},
"IdentityProvider": {
 "type": "structure",
 "members": {
 "ActiveDirectoryIdentityProvider": {
 "shape": "ActiveDirectoryIdentityProvider",
 "documentation": "<p>An object that details an Active Directory identity provider.</p>"
 }
 },
 "documentation": "<p>Details about an identity provider.</p>",
 "union": true
},
"IdentityProviderSummary": {
 "type": "structure",
 "required": [
 "IdentityProvider",
 "Product",
 "Settings",
 "Status"
],
 "members": {
 "FailureMessage": {
 "shape": "String",
 "documentation": "<p>The failure message associated with an identity provider.</p>"
 },
 "IdentityProvider": {
 "shape": "IdentityProvider",
 "documentation": "<p>An object that specifies details for the identity provider.</p>"
 },
 "Product": {
 "shape": "String",
 "documentation": "<p>The name of the user-based subscription product.</p>"
 },
 "Settings": {
 "shape": "Settings",
 "documentation": "<p>An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"
 }
 }
},

```

```

 "Status":{
 "shape":"String",
 "documentation":"<p>The status of an identity provider.</p>"
 }
 },
 "documentation":"<p>Describes an identity provider.</p>"
},
"IdentityProviderSummaryList":{
 "type":"list",
 "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
 "type":"structure",
 "required":[
 "InstanceId",
 "Products",
 "Status"
],
 "members":{
 "InstanceId":{
 "shape":"String",
 "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
 },
 "LastStatusCheckDate":{
 "shape":"String",
 "documentation":"<p>The date of the last status check.</p>"
 },
 "Products":{
 "shape":"StringList",
 "documentation":"<p>A list of provided user-based subscription products.</p>"
 },
 "Status":{
 "shape":"String",
 "documentation":"<p>The status of an EC2 instance resource.</p>"
 },
 "StatusMessage":{
 "shape":"String",
 "documentation":"<p>The status message for an EC2 instance.</p>"
 }
 },
 "documentation":"<p>Describes an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceSummaryList":{
 "type":"list",
 "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
 "type":"structure",

```

```

"required":[
 "IdentityProvider",
 "InstanceId",
 "Status",
 "Username"
],
"members":{
 "AssociationDate":{
 "shape":"String",
 "documentation":"<p>The date a user was associated with an EC2 instance.</p>"
 },
 "DisassociationDate":{
 "shape":"String",
 "documentation":"<p>The date a user was disassociated from an EC2 instance.</p>"
 },
 "Domain":{
 "shape":"String",
 "documentation":"<p>The domain name of the user.</p>"
 },
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>An object that specifies details for the identity provider.</p>"
 },
 "InstanceId":{
 "shape":"String",
 "documentation":"<p>The ID
of the EC2 instance, which provides user-based subscriptions.</p>"
 },
 "Status":{
 "shape":"String",
 "documentation":"<p>The status of a user associated with an EC2 instance.</p>"
 },
 "StatusMessage":{
 "shape":"String",
 "documentation":"<p>The status message for users of an EC2 instance.</p>"
 },
 "Username":{
 "shape":"String",
 "documentation":"<p>The user name from the identity provider for the user.</p>"
 }
},
"documentation":"<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceUserSummaryList":{
 "type":"list",
 "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{

```

```

"type":"structure",
"members":{
 "message":{"shape":"String"}
},
"documentation":"<p>An exception occurred with the service.</p>",
"exception":true,
"fault":true
},
>ListIdentityProvidersRequest:{
 "type":"structure",
"members":{
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
}
},
>ListIdentityProvidersResponse:{
 "type":"structure",
"required":["IdentityProviderSummaries"],
"members":{
 "IdentityProviderSummaries":{
 "shape":"IdentityProviderSummaryList",
 "documentation":"<p>Metadata that describes the list identity providers operation.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
}
},
>ListInstancesRequest:{
 "type":"structure",
"members":{
 "Filters":{
 "shape":"FilterList",
 "documentation":"<p>An
array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that
you specify.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },

```



```

 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 },
 "ListInstancesResponse":{
 "type":"structure",
 "members":{
 "InstanceSummaries":{
 "shape":"InstanceSummaryList",
 "documentation":"<p>Metadata that describes the list instances operation.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
 },
 "ListProductSubscriptionsRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product"
],
 "members":{
 "Filters":{
 "shape":"FilterList",
 "documentation":"<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify.</p>"
 },
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>An object that specifies details for the identity provider.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "Product":{
 "shape":"String",
 "documentation":"<p>The name of the user-based subscription product.</p>"
 }
 }
 }
}

```

```

 },
 "ListProductSubscriptionsResponse":{
 "type":"structure",
 "members":{
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token
for the next set of results.</p>"
 },
 "ProductUserSummaries":{
 "shape":"ProductUserSummaryList",
 "documentation":"<p>Metadata that describes the list product subscriptions operation.</p>"
 }
 }
 },
 "ListUserAssociationsRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "InstanceId"
],
 "members":{
 "Filters":{
 "shape":"FilterList",
 "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify.</p>"
 },
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>An object that specifies details for the identity provider.</p>"
 },
 "InstanceId":{
 "shape":"String",
 "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
 },
 "ListUserAssociationsResponse":{
 "type":"structure",

```

```

"members":{
 "InstanceUserSummaries":{
 "shape":"InstanceUserSummaryList",
 "documentation":"<p>Metadata that describes the list user association operation.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
}
},
"ProductUserSummary":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product",
 "Status",
 "Username"
],
 "members":{
 "Domain":{
 "shape":"String",
 "documentation":"<p>The domain name of the user.</p>"
 },
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>An object that specifies details for the identity provider.</p>"
 },
 "Product":{
 "shape":"String",
 "documentation":"<p>The name of the user-based subscription product.</p>"
 },
 "Status":{
 "shape":"String",
 "documentation":"<p>The status of a product for a user.</p>"
 },
 "StatusMessage":{
 "shape":"String",
 "documentation":"<p>The status message for a product for a user.</p>"
 },
 "SubscriptionEndDate":{
 "shape":"String",
 "documentation":"<p>The end date of a subscription.</p>"
 },
 "SubscriptionStartDate":{
 "shape":"String",
 "documentation":"<p>The start date of a subscription.</p>"
 }
 },
}

```

```

 "Username":{
 "shape":"String",
 "documentation":"<p>The user name from the identity provider
of the user.</p>"
 }
 },
 "documentation":"<p>The summary of the user-based subscription products for a user.</p>"
},
"ProductUserSummaryList":{
 "type":"list",
 "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product"
],
 "members":{
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>An object that specifies details for the identity provider.</p>"
 },
 "Product":{
 "shape":"String",
 "documentation":"<p>The name of the user-based subscription product.</p>"
 },
 "Settings":{
 "shape":"Settings",
 "documentation":"<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
 }
 }
},
"RegisterIdentityProviderResponse":{
 "type":"structure",
 "required":["IdentityProviderSummary"],
 "members":{
 "IdentityProviderSummary":{
 "shape":"IdentityProviderSummary",
 "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
 }
 }
},
"ResourceNotFoundException":{
 "type":"structure",
 "members":{

```

```

 "message":{"shape":"String"}
 },
 "documentation":"<p>The resource couldn't be found.</p>",
 "error":{
 "statusCode":404,
 "senderFault":true
 },
 "exception":true
},
"SecurityGroup":{
 "type":"string",
 "max":200,
 "min":5,
 "pattern":"^sg-([0-9a-z]{8})([0-9a-z]{17})$"
},
"ServiceQuotaExceededException":{
 "type":"structure",
 "members":{
 "message":{"shape":"String"}
 },
 "documentation":"<p>The request failed because a service quota is exceeded.</p>",
 "exception":true
},
"Settings":{
 "type":"structure",
 "required":[
 "SecurityGroupId",
 "Subnets"
],
 "members":{
 "SecurityGroupId":{
 "shape":"SecurityGroup",
 "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoint for activation servers.</p>"
 },
 "Subnets":{
 "shape":"SettingsSubnetsList",
 "documentation":"<p>The subnets defined for the registered identity provider.</p>"
 }
 },
 "documentation":"<p>The registered identity providers product related configuration settings such as the subnets
to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group
should permit inbound TCP port 1688 communication from resources in the VPC.</p>"
},
"SettingsSubnetsList":{
 "type":"list",
 "member":{"shape":"Subnet"},
 "min":1
}

```

```

},
"StartProductSubscriptionRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product",
 "Username"
],
 "members":{
 "Domain":{
 "shape":"String",
 "documentation":"<p>The domain name of the user.</p>"
 },
 "IdentityProvider":{
 "shape":"IdentityProvider",
 "documentation":"<p>An object that specifies details for the identity provider.</p>"
 },
 "Product":{
 "shape":"String",
 "documentation":"<p>The name of the user-based subscription product.</p>"
 },
 "Username":{
 "shape":"String",
 "documentation":"<p>The user name from the identity provider of the user.</p>"
 }
 }
},
"StartProductSubscriptionResponse":{
 "type":"structure",
 "required":["ProductUserSummary"],
 "members":{
 "ProductUserSummary":{
 "shape":"ProductUserSummary",
 "documentation":"<p>Metadata that describes
the start product subscription operation.</p>"
 }
 }
},
"StopProductSubscriptionRequest":{
 "type":"structure",
 "required":[
 "IdentityProvider",
 "Product",
 "Username"
],
 "members":{
 "Domain":{
 "shape":"String",

```

```

 "documentation": "<p>The domain name of the user.</p>"
 },
 "IdentityProvider": {
 "shape": "IdentityProvider",
 "documentation": "<p>An object that specifies details for the identity provider.</p>"
 },
 "Product": {
 "shape": "String",
 "documentation": "<p>The name of the user-based subscription product.</p>"
 },
 "Username": {
 "shape": "String",
 "documentation": "<p>The user name from the identity provider for the user.</p>"
 }
}
},
"StopProductSubscriptionResponse": {
 "type": "structure",
 "required": ["ProductUserSummary"],
 "members": {
 "ProductUserSummary": {
 "shape": "ProductUserSummary",
 "documentation": "<p>Metadata that describes the start product subscription operation.</p>"
 }
 }
},
"String": { "type": "string" },
"StringList": {
 "type": "list",
 "member": { "shape": "String" }
},
"Subnet": {
 "type": "string",
 "pattern": "subnet-[a-z0-9]{8,17}"
},
"Subnets": {
 "type": "list",
 "member": { "shape": "Subnet" }
},
"ThrottlingException": {
 "type": "structure",
 "members": {
 "message": { "shape": "String" }
 },
 "documentation": "<p>The request was denied because of request throttling. Retry the request.</p>",
 "exception": true
},
"UpdateIdentityProviderSettingsRequest": {

```

```

"type":"structure",
"required":[
 "IdentityProvider",
 "Product",
 "UpdateSettings"
],
"members":{
 "IdentityProvider":{"shape":"IdentityProvider"},
 "Product":{"
 "shape":"String",

 "documentation":"<p>The name of the user-based subscription product.</p>"
 },
 "UpdateSettings":{
 "shape":"UpdateSettings",
 "documentation":"<p>Updates the registered identity providers product related configuration settings. You can
update any combination of settings in a single operation such as the:</p> <p>Subnets which you want to
add to provision VPC endpoints.</p> <p>Subnets which you want to remove the VPC endpoints
from.</p> <p>Security group ID which permits traffic to the VPC endpoints.</p> "
 }
}
},
"UpdateIdentityProviderSettingsResponse":{
 "type":"structure",
 "required":["IdentityProviderSummary"],
 "members":{
 "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
 }
},
"UpdateSettings":{
 "type":"structure",
 "required":[
 "AddSubnets",
 "RemoveSubnets"
],
 "members":{
 "AddSubnets":{
 "shape":"Subnets",
 "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity to activation servers.</p>"
 },
 "RemoveSubnets":{
 "shape":"Subnets",
 "documentation":"<p>The ID of one or more subnets to remove.</p>"
 },
 "SecurityGroupId":{
 "shape":"SecurityGroup",
 "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between

```



resources in your VPC and the VPC endpoints for activation servers.</p>"

```
 }
 },
 "documentation": "<p>Updates the registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
},
"ValidationException": {
 "type": "structure",
 "members": {
 "message": { "shape": "String" }
 },
 "documentation": "<p>A parameter is not valid.</p>",
 "exception": true
}
},
"documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software
with a per user subscription fee on Amazon EC2 instances.</p>"
}
```

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

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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```
{
 "ResponseMetadata": {
 "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
 }
}
{
 "version": "2.0",
 "metadata": {
 "apiVersion": "2018-08-01",
 "endpointPrefix": "license-manager",
 "jsonVersion": "1.1",
 "protocol": "json",
 "serviceFullName": "AWS License Manager",
 "serviceId": "License Manager",
 "signatureVersion": "v4",
 "targetPrefix": "AWSLicenseManager",
 "uid": "license-manager-2018-08-01"
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 "operations": {
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 "requestUri": "/"
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 "output": { "shape": "AcceptGrantResponse" },
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 { "shape": "InvalidParameterValueException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" },
]
 }
}
```

```

 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Accepts the specified grant.</p>"
},

"CheckInLicense":{
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 "http":{
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 },
 "input":{"shape":"CheckInLicenseRequest"},
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 {"shape":"ConflictException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Checks in the specified license. Check in a license when it is no longer in use.</p>"
},

"CheckoutBorrowLicense":{
 "name":"CheckoutBorrowLicense",
 "http":{
 "method":"POST",
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 },
 "input":{"shape":"CheckoutBorrowLicenseRequest"},
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 {"shape":"EntitlementNotAllowedException"},
 {"shape":"UnsupportedDigitalSignatureMethodException"},
 {"shape":"RedirectException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Checks out the specified license for offline use.</p>"
}

```

```

},
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 {"shape":"RedirectException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Checks out the specified license.</p> <note> <p>If the account that created the license is
the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>"
},
"CreateGrant":{
 "name":"CreateGrant",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
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 "output":{"shape":"CreateGrantResponse"},
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 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
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 {"shape":"RateLimitExceededException"},
 {"shape":"AccessDeniedException"}
],
 "documentation":"<p>Creates a grant for the specified license. A grant shares the use of license entitlements with
specific Amazon Web Services accounts.</p>"
},
"CreateGrantVersion":{
 "name":"CreateGrantVersion",
 "http":{
 "method":"POST",

```

```

 "requestUri":"/"
 },
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 "output":{"shape":"CreateGrantVersionResponse"},
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 "documentation":"<p>Creates a new version of the specified grant.</p>"
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 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Creates a license.</p>"
},
"CreateLicenseConfiguration":{
 "name":"CreateLicenseConfiguration",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"CreateLicenseConfigurationRequest"},
 "output":{"shape":"CreateLicenseConfigurationResponse"},
 "errors":[
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 {"shape":"ServerInternalException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},

```

```

 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a
customer license agreement that can be consumed and enforced by License Manager. Components include
specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy,
Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated
with a host), and the number of licenses purchased and used.</p>"
},
"CreateLicenseConversionTaskForResource":{
 "name":"CreateLicenseConversionTaskForResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
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 {"shape":"ValidationException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Creates a new license conversion task.</p>"
},
"CreateLicenseManagerReportGenerator":{
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 "http":{
 "method":"POST",
 "requestUri":"/"
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 "input":{"shape":"CreateLicenseManagerReportGeneratorRequest"},
 "output":{"shape":"CreateLicenseManagerReportGeneratorResponse"},
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 {"shape":"InvalidParameterValueException"},
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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"}
],
 "documentation":"<p>Creates a report generator.</p>"
},
"CreateLicenseVersion":{
 "name":"CreateLicenseVersion",

```



```

"http":{
 "method":"POST",
 "requestUri":"/"
},
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 {"shape":"RedirectException"},
 {"shape":"ConflictException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Creates a new version of the specified license.</p>"
},
"CreateToken":{
 "name":"CreateToken",
 "http":{
 "method":"POST",

"requestUri":"/"
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 "input":{"shape":"CreateTokenRequest"},
 "output":{"shape":"CreateTokenResponse"},
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 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"RedirectException"}
],
 "documentation":"<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>"
},
"DeleteGrant":{
 "name":"DeleteGrant",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"DeleteGrantRequest"},

```

```

"output":{"shape":"DeleteGrantResponse"},
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 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"}
],
"documentation":"<p>Deletes the specified grant.</p>"
},
"DeleteLicense":{
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 "http":{
 "method":"POST",
 "requestUri":"/"
 },
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 "output":{"shape":"DeleteLicenseResponse"},
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 {"shape":"ConflictException"},
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 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Deletes the specified license.</p>"
},
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 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Deletes the specified license configuration.</p> <p>You cannot delete a license

```

configuration that is in use.</p>"

```
 },
 "DeleteLicenseManagerReportGenerator":{
 "name":"DeleteLicenseManagerReportGenerator",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"DeleteLicenseManagerReportGeneratorRequest"},
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 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"}
],
 "documentation":"<p>Deletes the specified report generator.</p> <p>This action deletes the report generator,
which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports
from this generator.</p>"
 },
 "DeleteToken":{
 "name":"DeleteToken",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"DeleteTokenRequest"},
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],
 "documentation":"<p>Deletes the specified token. Must be called in the license home Region.</p>"
 },
 "ExtendLicenseConsumption":{
 "name":"ExtendLicenseConsumption",
 "http":{
 "method":"POST",
 "requestUri":"/"
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 }
}
```

```

 },
 "input": {"shape": "ExtendLicenseConsumptionRequest"},
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 {"shape": "ServerInternalException"},
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],
 "documentation": "<p>Extends the expiration date for license consumption.</p>"
 },
 "GetAccessToken": {
 "name": "GetAccessToken",
 "http": {
 "method": "POST",
 "requestUri": "/"
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 "input": {"shape": "GetAccessTokenRequest"},
 "output": {"shape": "GetAccessTokenResponse"},
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 {"shape": "AuthorizationException"},
 {"shape": "AccessDeniedException"},
 {"shape": "RateLimitExceededException"},
 {"shape": "ServerInternalException"}
],
 "documentation": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>"
 },
 "GetGrant": {
 "name": "GetGrant",
 "http": {
 "method": "POST",
 "requestUri": "/"
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 "input": {"shape": "GetGrantRequest"},
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 {"shape": "AuthorizationException"},
 {"shape": "AccessDeniedException"},
 {"shape": "RateLimitExceededException"}
]
 }
}

```

```

],
 "documentation": "<p>Gets detailed information about the specified grant.</p>"
 },
 "GetLicense": {
 "name": "GetLicense",
 "http": {
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 "requestUri": "/"
 },
 "input": { "shape": "GetLicenseRequest" },
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 { "shape": "InvalidParameterValueException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" },
 { "shape": "ServerInternalException" }
],
 "documentation": "<p>Gets detailed information about the specified license.</p>"
 },
 "GetLicenseConfiguration": {
 "name": "GetLicenseConfiguration",
 "http": {
 "method": "POST",
 "requestUri": "/"
 },
 "input": { "shape": "GetLicenseConfigurationRequest" },
 "output": { "shape": "GetLicenseConfigurationResponse" },
 "errors": [
 { "shape": "InvalidParameterValueException" },
 { "shape": "ServerInternalException" },
 { "shape": "AuthorizationException" },
 { "shape": "AccessDeniedException" },
 { "shape": "RateLimitExceededException" }
],
 "documentation": "<p>Gets detailed information about the specified license configuration.</p>"
 },
 "GetLicenseConversionTask": {
 "name": "GetLicenseConversionTask",
 "http": {
 "method": "POST",
 "requestUri": "/"
 },
 "input": { "shape": "GetLicenseConversionTaskRequest" },
 "output": { "shape": "GetLicenseConversionTaskResponse" },
 "errors": [
 { "shape": "InvalidParameterValueException" },

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 {"shape":"ServerInternalException"},

 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Gets information about the specified license type conversion task.</p>"
},
"GetLicenseManagerReportGenerator":{
 "name":"GetLicenseManagerReportGenerator",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
 "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"}
],
 "documentation":"<p>Gets information about the specified
report generator.</p>"
},
"GetLicenseUsage":{
 "name":"GetLicenseUsage",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"GetLicenseUsageRequest"},
 "output":{"shape":"GetLicenseUsageResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Gets detailed information about the usage of the specified license.</p>"
},
"GetServiceSettings":{

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"name":"GetServiceSettings",
"http":{"
 "method":"POST",
 "requestUri":"/"
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Gets the License Manager settings for the current Region.</p>"
},
"ListAssociationsForLicenseConfiguration":{
 "name":"ListAssociationsForLicenseConfiguration",
 "http":{"
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
 "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"FilterLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists the resource associations for the specified license configuration.</p> <p>Resource
associations need not consume licenses
from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending
on the license rules).</p>"
},
"ListDistributedGrants":{
 "name":"ListDistributedGrants",
 "http":{"
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListDistributedGrantsRequest"},
 "output":{"shape":"ListDistributedGrantsResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},

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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists the grants distributed for the specified license.</p>"
},
"ListFailuresForLicenseConfigurationOperations":{
 "name":"ListFailuresForLicenseConfigurationOperations",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
 "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists the license configuration operations that failed.</p>"
},
"ListLicenseConfigurations":{
 "name":"ListLicenseConfigurations",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListLicenseConfigurationsRequest"},
 "output":{"shape":"ListLicenseConfigurationsResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"FilterLimitExceededException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists the license configurations for your account.</p>"
},
"ListLicenseConversionTasks":{
 "name":"ListLicenseConversionTasks",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "documentation":"<p>Lists the license configurations for your account.</p>"
},

```



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"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists the license type conversion tasks for your account.</p>"
},
"ListLicenseManagerReportGenerators":{
 "name":"ListLicenseManagerReportGenerators",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
 "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"}
],
 "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
 "name":"ListLicenseSpecificationsForResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
 "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Describes the license configurations for the specified resource.</p>"
},

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"ListLicenseVersions":{
 "name":"ListLicenseVersions",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListLicenseVersionsRequest"},
 "output":{"shape":"ListLicenseVersionsResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Lists all versions of the specified license.</p>"
},
"ListLicenses":{
 "name":"ListLicenses",
 "http":{
 "method":"POST",

"requestUri":"/"
 },
 "input":{"shape":"ListLicensesRequest"},
 "output":{"shape":"ListLicensesResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Lists the licenses for your account.</p>"
},
"ListReceivedGrants":{
 "name":"ListReceivedGrants",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListReceivedGrantsRequest"},
 "output":{"shape":"ListReceivedGrantsResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},

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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},

{"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists grants that are received but not accepted.</p>"
},
"ListReceivedGrantsForOrganization":{
 "name":"ListReceivedGrantsForOrganization",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
 "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists the grants received for all accounts in the organization.</p>"
},
"ListReceivedLicenses":{
 "name":"ListReceivedLicenses",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListReceivedLicensesRequest"},
 "output":{"shape":"ListReceivedLicensesResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists received licenses.</p>"
},
"ListReceivedLicensesForOrganization":{
 "name":"ListReceivedLicensesForOrganization",

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"http":{
 "method":"POST",
 "requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"ResourceLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
 "name":"ListResourceInventory",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListResourceInventoryRequest"},
 "output":{"shape":"ListResourceInventoryResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"FilterLimitExceededException"},
 {"shape":"FailedDependencyException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists
resources managed using Systems Manager inventory.</p>"
},
"ListTagsForResource":{
 "name":"ListTagsForResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListTagsForResourceRequest"},
 "output":{"shape":"ListTagsForResourceResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},

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 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists the tags for the specified license configuration.</p>"
},
"ListTokens":{
 "name":"ListTokens",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListTokensRequest"},
 "output":{"shape":"ListTokensResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"}
],
 "documentation":"<p>Lists your tokens.</p>"
},
"ListUsageForLicenseConfiguration":{
 "name":"ListUsageForLicenseConfiguration",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
 "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"FilterLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>"
},
"RejectGrant":{
 "name":"RejectGrant",
 "http":{
 "method":"POST",
 "requestUri":"/"
 }
}

```

```

 },
 "input": {"shape": "RejectGrantRequest"},
 "output": {"shape": "RejectGrantResponse"},
 "errors": [
 {"shape": "ValidationException"},
 {"shape": "InvalidParameterValueException"},
 {"shape": "AuthorizationException"},
 {"shape": "AccessDeniedException"},
 {"shape": "RateLimitExceededException"},
 {"shape": "ResourceLimitExceededException"},
 {"shape": "ServerInternalException"}
],
 "documentation": "<p>Rejects the specified grant.</p>"
 },
 "TagResource": {
 "name": "TagResource",
 "http": {
 "method": "POST",
 "requestUri": "/"
 },
 "input": {"shape": "TagResourceRequest"},
 "output": {"shape": "TagResourceResponse"},
 "errors": [
 {"shape": "InvalidParameterValueException"},
 {"shape": "ServerInternalException"},
 {"shape": "AuthorizationException"},
 {"shape": "AccessDeniedException"},
 {"shape": "RateLimitExceededException"}
],
 "documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
 },
 "UntagResource": {
 "name": "UntagResource",
 "http": {
 "method": "POST",
 "requestUri": "/"
 },
 "input": {"shape": "UntagResourceRequest"},
 "output": {"shape": "UntagResourceResponse"},
 "errors": [
 {"shape": "InvalidParameterValueException"},
 {"shape": "ServerInternalException"},
 {"shape": "AuthorizationException"},
 {"shape": "AccessDeniedException"},
 {"shape": "RateLimitExceededException"}
],
 "documentation": "<p>Removes the specified tags from the specified license configuration.</p>"
 },
}

```

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"UpdateLicenseConfiguration":{
 "name":"UpdateLicenseConfiguration",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"UpdateLicenseConfigurationRequest"},
 "output":{"shape":"UpdateLicenseConfigurationResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ResourceLimitExceededException"}
],
 "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseManagerReportGenerator":{
 "name":"UpdateLicenseManagerReportGenerator",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
 "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
 "errors":[
 {"shape":"ValidationException"},
 {"shape":"InvalidParameterValueException"},
 {"shape":"RateLimitExceededException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"ResourceNotFoundException"},
 {"shape":"ResourceLimitExceededException"}
],
 "documentation":"<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
},
"UpdateLicenseSpecificationsForResource":{
 "name":"UpdateLicenseSpecificationsForResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
 "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
 "errors":[]
}

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 {"shape":"InvalidParameterValueException"},
 {"shape":"InvalidResourceStateException"},
 {"shape":"LicenseUsageException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>"
},
"UpdateServiceSettings":{
 "name":"UpdateServiceSettings",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
 "input":{"shape":"UpdateServiceSettingsRequest"},
 "output":{"shape":"UpdateServiceSettingsResponse"},
 "errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
],
 "documentation":"<p>Updates License Manager settings for the current Region.</p>"
}
},
"shapes":{
 "AcceptGrantRequest":{
 "type":"structure",
 "required":["GrantArn"],
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
 }
 }
 },
 "AcceptGrantResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Grant ARN.</p>"
 }
 }
 }
}

```



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 },
 "Status":{
 "shape":"GrantStatus",
 "documentation":"<p>Grant status.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>Grant version.</p>"
 }
 }
},
"AccessDeniedException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>Access to resource denied.</p>",
 "exception":true
},
"AllowedOperation":{
 "type":"string",
 "enum":[
 "CreateGrant",
 "CheckoutLicense",
 "CheckoutBorrowLicense",
 "CheckInLicense",
 "ExtendConsumptionLicense",
 "ListPurchasedLicenses",
 "CreateToken"
]
},
"AllowedOperationList":{
 "type":"list",
 "member":{"shape":"AllowedOperation"},
 "max":7,
 "min":1
},
"Arn":{
 "type":"string",
 "max":2048,
 "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/_+=,@.-]{0,1023}$"
},
"ArnList":{
 "type":"list",
 "member":{"shape":"Arn"}
},
"AuthorizationException":{

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 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>The Amazon Web Services user account does not have permission to perform the action.
Check the IAM policy associated
with this account.</p>",
 "exception":true
 },
 "AutomatedDiscoveryInformation":{
 "type":"structure",
 "members":{
 "LastRunTime":{
 "shape":"DateTime",
 "documentation":"<p>Time that automated discovery last ran.</p>"
 }
 },
 "documentation":"<p>Describes automated discovery.</p>"
 },
 "Boolean":{"type":"boolean"},
 "BorrowConfiguration":{
 "type":"structure",
 "required":[
 "AllowEarlyCheckIn",
 "MaxTimeToLiveInMinutes"
],
 "members":{
 "AllowEarlyCheckIn":{
 "shape":"BoxBoolean",
 "documentation":"<p>Indicates whether early check-ins are allowed.</p>"
 },
 "MaxTimeToLiveInMinutes":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum time for the borrow configuration, in minutes.</p>"
 }
 },
 "documentation":"<p>Details about a borrow configuration.</p>"
 },
 "BoxBoolean":{"type":"boolean"},
 "BoxInteger":{"type":"integer"},
 "BoxLong":{"type":"long"},
 "CheckInLicenseRequest":{
 "type":"structure",
 "required":["LicenseConsumptionToken"],
 "members":{
 "LicenseConsumptionToken":{
 "shape":"String",
 "documentation":"<p>License consumption token.</p>"
 }
 }
 }
}

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 },
 "Beneficiary":{
 "shape":"String",
 "documentation":"<p>License beneficiary.</p>"
 }
 }
},
"CheckInLicenseResponse":{
 "type":"structure",
 "members":{
 }
},
"CheckoutBorrowLicenseRequest":{
 "type":"structure",
 "required":[
 "LicenseArn",
 "Entitlements",
 "DigitalSignatureMethod",
 "ClientToken"
],
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license. The license must use the borrow
consumption configuration.</p>"
 },
 "Entitlements":{
 "shape":"EntitlementDataList",
 "documentation":"<p>License entitlements. Partial checkouts are not supported.</p>"
 },
 "DigitalSignatureMethod":{
 "shape":"DigitalSignatureMethod",
 "documentation":"<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm
PS384. For more information, see RFC 7518 Digital
Signature with RSASSA-PSS.</p>"
 },
 "NodeId":{
 "shape":"String",
 "documentation":"<p>Node ID.</p>"
 },
 "CheckoutMetadata":{
 "shape":"MetadataList",
 "documentation":"<p>Information about constraints.</p>"
 },
 "ClientToken":{
 "shape":"ClientToken",
 "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
 }
 }
}

```

```

 }
 }
},
"CheckoutBorrowLicenseResponse":{
 "type":"structure",
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "LicenseConsumptionToken":{
 "shape":"String",
 "documentation":"<p>License consumption token.</p>"
 },
 "EntitlementsAllowed":{
 "shape":"EntitlementDataList",
 "documentation":"<p>Allowed license entitlements.</p>"
 },
 "NodeId":{
 "shape":"String",
 "documentation":"<p>Node ID.</p>"
 },
 "SignedToken":{
 "shape":"SignedToken",
 "documentation":"<p>Signed token.</p>"
 },
 "IssuedAt":{
 "shape":"ISO8601DateTime",
 "documentation":"<p>Date and time at which the license checkout is issued.</p>"
 },
 "Expiration":{
 "shape":"ISO8601DateTime",
 "documentation":"<p>Date and time at which the license checkout expires.</p>"
 },
 "CheckoutMetadata":{
 "shape":"MetadataList",
 "documentation":"<p>Information about constraints.</p>"
 }
 }
},
"CheckoutLicenseRequest":{
 "type":"structure",
 "required":[
 "ProductSKU",
 "CheckoutType",
 "KeyFingerprint",
 "Entitlements",

```

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 "ClientToken"
],
 "members":{
 "ProductSKU":{
 "shape":"String",
 "documentation":"<p>Product SKU.</p>"
 },
 "CheckoutType":{
 "shape":"CheckoutType",
 "documentation":"<p>Checkout type.</p>"
 },
 "KeyFingerprint":{
 "shape":"String",
 "documentation":"<p>Key fingerprint identifying the license.</p>"
 },
 "Entitlements":{
 "shape":"EntitlementDataList",
 "documentation":"<p>License entitlements.</p>"
 },
 "ClientToken":{
 "shape":"ClientToken",
 "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency
of the request.</p>"
 },
 "Beneficiary":{
 "shape":"String",
 "documentation":"<p>License beneficiary.</p>"
 },
 "NodeId":{
 "shape":"String",
 "documentation":"<p>Node ID.</p>"
 }
 }
},
"CheckoutLicenseResponse":{
 "type":"structure",
 "members":{
 "CheckoutType":{
 "shape":"CheckoutType",
 "documentation":"<p>Checkout type.</p>"
 },
 "LicenseConsumptionToken":{
 "shape":"String",
 "documentation":"<p>License consumption token.</p>"
 },
 "EntitlementsAllowed":{
 "shape":"EntitlementDataList",
 "documentation":"<p>Allowed license entitlements.</p>"
 }
 }
}

```

```

 },
 "SignedToken":{
 "shape":"SignedToken",
 "documentation":"<p>Signed token.</p>"
 },
 "NodeId":{
 "shape":"String",
 "documentation":"<p>Node ID.</p>"
 },
 "IssuedAt":{
 "shape":"ISO8601DateTime",
 "documentation":"<p>Date and time at which the license checkout is issued.</p>"
 },
 "Expiration":{
 "shape":"ISO8601DateTime",
 "documentation":"<p>Date and time at which the license checkout expires.</p>"
 },
 "LicenseArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the checkout license.</p>"
 }
 }
},
"CheckoutType":{
 "type":"string",
 "enum":[
 "PROVISIONAL",
 "PERPETUAL"
]
},
"ClientRequestToken":{
 "type":"string",
 "max":36,
 "min":1
},
"ClientToken":{
 "type":"string",
 "max":2048,
 "pattern":"\\S+"
},
"ConflictException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 }
},
"documentation":"<p>There was a conflict processing the request. Try your request again.</p>",
"exception":true

```

```

},
"ConsumedLicenseSummary":{
 "type":"structure",
 "members":{
 "ResourceType":{
 "shape":"ResourceType",
 "documentation":"<p>Resource type of the resource consuming a license.</p>"
 },
 "ConsumedLicenses":{
 "shape":"BoxLong",
 "documentation":"<p>Number of licenses consumed by the resource.</p>"
 }
 },
 "documentation":"<p>Details about license consumption.</p>"
},
"ConsumedLicenseSummaryList":{
 "type":"list",
 "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
 "type":"structure",
 "members":{
 "RenewType":{
 "shape":"RenewType",
 "documentation":"<p>Renewal frequency.</p>"
 },
 "ProvisionalConfiguration":{
 "shape":"ProvisionalConfiguration",
 "documentation":"<p>Details about a provisional configuration.</p>"
 },
 "BorrowConfiguration":{
 "shape":"BorrowConfiguration",
 "documentation":"<p>Details about a borrow configuration.</p>"
 }
 },
 "documentation":"<p>Details about a consumption configuration.</p>"
},
"CreateGrantRequest":{
 "type":"structure",
 "required":[
 "ClientToken",
 "GrantName",
 "LicenseArn",
 "Principals",
 "HomeRegion",
 "AllowedOperations"
],
 "members":{

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"ClientToken":{
 "shape":"ClientToken",
 "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
},
"GrantName":{
 "shape":"String",
 "documentation":"<p>Grant name.</p>"
},
"LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
},
"Principals":{
 "shape":"PrincipalArnList",
 "documentation":"<p>The grant principals. This value should be
specified as an Amazon Resource Name (ARN).</p>"
},
"HomeRegion":{
 "shape":"String",
 "documentation":"<p>Home Region of the grant.</p>"
},
"AllowedOperations":{
 "shape":"AllowedOperationList",
 "documentation":"<p>Allowed operations for the grant.</p>"
}
}
},
"CreateGrantResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Grant ARN.</p>"
 },
 "Status":{
 "shape":"GrantStatus",
 "documentation":"<p>Grant status.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>Grant version.</p>"
 }
 }
},
"CreateGrantVersionRequest":{
 "type":"structure",
 "required":[

```



```

 "ClientToken",
 "GrantArn"
],
 "members":{
 "ClientToken":{
 "shape":"ClientToken",
 "documentation":"<p>Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
 },
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
 },
 "GrantName":{
 "shape":"String",
 "documentation":"<p>Grant name.</p>"
 },
 "AllowedOperations":{
 "shape":"AllowedOperationList",
 "documentation":"<p>Allowed operations for the grant.</p>"
 },
 "Status":{
 "shape":"GrantStatus",
 "documentation":"<p>Grant status.</p>"
 },
 "StatusReason":{
 "shape":"StatusReasonMessage",
 "documentation":"<p>Grant status reason.</p>"
 },
 "SourceVersion":{
 "shape":"String",
 "documentation":"<p>Current version of the grant.</p>"
 }
 }
},
"CreateGrantVersionResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Grant ARN.</p>"
 },
 "Status":{
 "shape":"GrantStatus",
 "documentation":"<p>Grant status.</p>"
 },
 "Version":{
 "shape":"String",

```

```

 "documentation": "<p>New version of the grant.</p>"
 }
}
},
"CreateLicenseConfigurationRequest": {
 "type": "structure",
 "required": [
 "Name",
 "LicenseCountingType"
],
 "members": {
 "Name": {
 "shape": "String",
 "documentation": "<p>Name of the license configuration.</p>"
 },
 "Description": {
 "shape": "String",
 "documentation": "<p>Description of the license configuration.</p>"
 },
 "LicenseCountingType": {
 "shape": "LicenseCountingType",
 "documentation": "<p>Dimension used to track the license inventory.</p>"
 },
 "LicenseCount": {
 "shape": "BoxLong",
 "documentation": "<p>Number of licenses
managed by the license configuration.</p>"
 },
 "LicenseCountHardLimit": {
 "shape": "BoxBoolean",
 "documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit
blocks the launch of new instances.</p>"
 },
 "LicenseRules": {
 "shape": "StringList",
 "documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-
DedicatedHost). The available rules vary by dimension, as follows.</p>

<p><code>Cores</code>
dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p>

<p><code>Instances</code>
dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p>

<p><code>Sockets</code>
dimension:
<code>allowedTenancy</code>
| <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code> </p>

<p><code>vCPUs</code>
dimension: <code>allowedTenancy</code> |
<code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p>

<p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible
values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>,

```

and `EC2-DedicatedInstance`. The possible values for `honorVcpuOptimization` are `True` and `False`.

```
 },
 "Tags":{
 "shape":"TagList",
 "documentation":"<p>Tags to add to the license configuration.</p>"
 },
 "DisassociateWhenNotFound":{
 "shape":"BoxBoolean",
 "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
 },
 "ProductInformationList":{
 "shape":"ProductInformationList",
 "documentation":"<p>Product information.</p>"
 }
 }
},
"CreateLicenseConfigurationResponse":{
 "type":"structure",
 "members":{
 "LicenseConfigurationArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 }
},
"CreateLicenseConversionTaskForResourceRequest":{
 "type":"structure",
 "required":[
 "ResourceArn",
 "SourceLicenseContext",
 "DestinationLicenseContext"
],
 "members":{
 "ResourceArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the resource you are converting the license type
for.</p>"
 },
 "SourceLicenseContext":{
 "shape":"LicenseConversionContext",
 "documentation":"<p>Information that identifies the license type you are converting from. For the structure
of the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the Amazon Web Services CLI in the
<i>License Manager User Guide</i>.</p>"
 },
 "DestinationLicenseContext":{
 "shape":"LicenseConversionContext",
```

"documentation": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the Amazon Web Services CLI</a> in the <i>License Manager User Guide</i>.</p>"

```
 }
 }
},
"CreateLicenseConversionTaskForResourceResponse":{
 "type":"structure",
 "members":{
 "LicenseConversionTaskId":{
 "shape":"LicenseConversionTaskId",
 "documentation":"<p>The ID of the created license type conversion
task.</p>"
 }
 }
},
"CreateLicenseManagerReportGeneratorRequest":{
 "type":"structure",
 "required":[
 "ReportGeneratorName",
 "Type",
 "ReportContext",
 "ReportFrequency",
 "ClientToken"
],
 "members":{
 "ReportGeneratorName":{
 "shape":"ReportGeneratorName",
 "documentation":"<p>Name of the report generator.</p>"
 },
 "Type":{
 "shape":"ReportTypeList",
 "documentation":"<p>Type of reports to generate. The following report types an be generated:</p>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> <p>Resource report - Reports the tracked licenses and resource consumption for a
license configuration.</p> "
 },
 "ReportContext":{
 "shape":"ReportContext",
 "documentation":"<p>Defines the type of license configuration the
report generator tracks.</p>"
 },
 "ReportFrequency":{
 "shape":"ReportFrequency",
 "documentation":"<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or
weekly.</p>"
 }
 }
},
```

```

"ClientToken":{
 "shape":"ClientRequestToken",
 "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
},
"Description":{
 "shape":"String",
 "documentation":"<p>Description of the report generator.</p>"
},
"Tags":{
 "shape":"TagList",
 "documentation":"<p>Tags to add to the report generator.</p>"
}
},
"CreateLicenseManagerReportGeneratorResponse":{
 "type":"structure",
 "members":{
 "LicenseManagerReportGeneratorArn":{
 "shape":"String",
 "documentation":"<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
 }
 }
},
"CreateLicenseRequest":{
 "type":"structure",
 "required":[
 "LicenseName",
 "ProductName",
 "ProductSKU",
 "Issuer",
 "HomeRegion",
 "Validity",
 "Entitlements",
 "Beneficiary",
 "ConsumptionConfiguration",
 "ClientToken"
],
 "members":{
 "LicenseName":{
 "shape":"String",
 "documentation":"<p>License name.</p>"
 },
 "ProductName":{
 "shape":"String",
 "documentation":"<p>Product name.</p>"
 }
 }
},

```

```

"ProductSKU":{
 "shape":"String",
 "documentation":"<p>Product SKU.</p>"
},
"Issuer":{
 "shape":"Issuer",
 "documentation":"<p>License issuer.</p>"
},
"HomeRegion":{
 "shape":"String",
 "documentation":"<p>Home Region for the license.</p>"
},
"Validity":{
 "shape":"DatetimeRange",
 "documentation":"<p>Date
and time range during which the license is valid, in ISO8601-UTC format.</p>"
},
"Entitlements":{
 "shape":"EntitlementList",
 "documentation":"<p>License entitlements.</p>"
},
"Beneficiary":{
 "shape":"String",
 "documentation":"<p>License beneficiary.</p>"
},
"ConsumptionConfiguration":{
 "shape":"ConsumptionConfiguration",
 "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for
workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>"
},
"LicenseMetadata":{
 "shape":"MetadataList",
 "documentation":"<p>Information about the license.</p>"
},
"ClientToken":{
 "shape":"ClientToken",
 "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
}
}
},
"CreateLicenseResponse":{
 "type":"structure",
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"

```

```

 },
 "Status":{
 "shape":"LicenseStatus",
 "documentation":"<p>License status.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>License version.</p>"
 }
 }
},
"CreateLicenseVersionRequest":{
 "type":"structure",
 "required":[
 "LicenseArn",
 "LicenseName",
 "ProductName",
 "Issuer",
 "HomeRegion",
 "Validity",
 "Entitlements",
 "ConsumptionConfiguration",
 "Status",
 "ClientToken"
],
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "LicenseName":{
 "shape":"String",
 "documentation":"<p>License name.</p>"
 },
 "ProductName":{
 "shape":"String",
 "documentation":"<p>Product name.</p>"
 },
 "Issuer":{
 "shape":"Issuer",
 "documentation":"<p>License issuer.</p>"
 },
 "HomeRegion":{
 "shape":"String",
 "documentation":"<p>Home Region of the license.</p>"
 },
 "Validity":{
 "shape":"DatetimeRange",

```

```

 "documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
 },
 "LicenseMetadata": {
 "shape": "MetadataList",
 "documentation": "<p>Information about the license.</p>"
 },
 "Entitlements": {
 "shape": "EntitlementList",
 "documentation": "<p>License entitlements.</p>"
 },
 "ConsumptionConfiguration": {
 "shape": "ConsumptionConfiguration",
 "documentation": "<p>Configuration for consumption
of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a
borrow configuration for workloads with offline usage.</p>"
 },
 "Status": {
 "shape": "LicenseStatus",
 "documentation": "<p>License status.</p>"
 },
 "ClientToken": {
 "shape": "ClientToken",
 "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
 },
 "SourceVersion": {
 "shape": "String",
 "documentation": "<p>Current version of the license.</p>"
 }
}
},
"CreateLicenseVersionResponse": {
 "type": "structure",
 "members": {
 "LicenseArn": {
 "shape": "Arn",
 "documentation": "<p>License ARN.</p>"
 },
 "Version": {
 "shape": "String",
 "documentation": "<p>New version of the license.</p>"
 },
 "Status": {
 "shape": "LicenseStatus",
 "documentation": "<p>License status.</p>"
 }
 }
}
},

```



```

"CreateTokenRequest":{
 "type":"structure",
 "required":[
 "LicenseArn",
 "ClientToken"
],
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token.</p>"
 },
 "RoleArns":{
 "shape":"ArnList",
 "documentation":"<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use.</p>"
 },
 "ExpirationInDays":{
 "shape":"Integer",
 "documentation":"<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
 },
 "TokenProperties":{
 "shape":"MaxSize3StringList",
 "documentation":"<p>Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token.</p>"
 },
 "ClientToken":{
 "shape":"ClientToken",
 "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
 }
 }
},
"CreateTokenResponse":{
 "type":"structure",
 "members":{
 "TokenId":{
 "shape":"String",
 "documentation":"<p>Token ID.</p>"
 },
 "TokenType":{
 "shape":"TokenType",
 "documentation":"<p>Token type.</p>"
 },
 "Token":{
 "shape":"TokenString",
 "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
 }
 }
}

```

```

 },
 "DateTime":{"type":"timestamp"},
 "DatetimeRange":{"
 "type":"structure",
 "required":["Begin"],
 "members":{"
 "Begin":{"
 "shape":"ISO8601DateTime",
 "documentation":"<p>Start of the time range.</p>"
 },
 "End":{"
 "shape":"ISO8601DateTime",
 "documentation":"<p>End of the time
range.</p>"
 }
 }
 },
 "documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
 },
 "DeleteGrantRequest":{"
 "type":"structure",
 "required":[
 "GrantArn",
 "Version"
],
 "members":{"
 "GrantArn":{"
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
 },
 "StatusReason":{"
 "shape":"StatusReasonMessage",
 "documentation":"<p>The Status reason for the delete request.</p>"
 },
 "Version":{"
 "shape":"String",
 "documentation":"<p>Current version of the grant.</p>"
 }
 }
 }
},
"DeleteGrantResponse":{"
 "type":"structure",
 "members":{"
 "GrantArn":{"
 "shape":"Arn",
 "documentation":"<p>Grant ARN.</p>"
 },
 "Status":{"
 "shape":"GrantStatus",

```

```

 "documentation": "<p>Grant status.</p>"
 },
 "Version": {
 "shape": "String",
 "documentation": "<p>Grant version.</p>"
 }
},
"DeleteLicenseConfigurationRequest": {
 "type": "structure",
 "required": ["LicenseConfigurationArn"],
 "members": {
 "LicenseConfigurationArn": {
 "shape": "String",
 "documentation": "<p>ID of the license configuration.</p>"
 }
 }
},
"DeleteLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 }
},
"DeleteLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "required": ["LicenseManagerReportGeneratorArn"],
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
 }
 }
},
"DeleteLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {
 }
},
"DeleteLicenseRequest": {
 "type": "structure",

 "required": [
 "LicenseArn",
 "SourceVersion"
],
 "members": {
 "LicenseArn": {
 "shape": "Arn",

```

```

 "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "SourceVersion": {
 "shape": "String",
 "documentation": "<p>Current version of the license.</p>"
 }
},
"DeleteLicenseResponse": {
 "type": "structure",
 "members": {
 "Status": {
 "shape": "LicenseDeletionStatus",
 "documentation": "<p>License status.</p>"
 },
 "DeletionDate": {
 "shape": "ISO8601DateTime",
 "documentation": "<p>Date when the license is deleted.</p>"
 }
 }
},
"DeleteTokenRequest": {
 "type": "structure",
 "required": ["TokenId"],
 "members": {
 "TokenId": {
 "shape": "String",
 "documentation": "<p>Token ID.</p>"
 }
 }
},
"DeleteTokenResponse": {
 "type": "structure",
 "members": {
 }
},
"DigitalSignatureMethod": {
 "type": "string",
 "enum": ["JWT_PS384"]
},
"Entitlement": {
 "type": "structure",
 "required": [
 "Name",
 "Unit"
],
 "members": {
 "Name": {

```

```

 "shape": "String",
 "documentation": "<p>Entitlement name.</p>"
 },
 "Value": {
 "shape": "String",
 "documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
 },
 "MaxCount": {
 "shape": "Long",
 "documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
 },
 "Overage": {
 "shape": "BoxBoolean",
 "documentation": "<p>Indicates whether overages are allowed.</p>"
 },
 "Unit": {
 "shape": "EntitlementUnit",
 "documentation": "<p>Entitlement unit.</p>"
 },
 "AllowCheckIn": {
 "shape": "BoxBoolean",
 "documentation": "<p>Indicates whether
check-ins are allowed.</p>"
 }
},
"documentation": "<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData": {
 "type": "structure",
 "required": [
 "Name",
 "Unit"
],
 "members": {
 "Name": {
 "shape": "String",
 "documentation": "<p>Entitlement data name.</p>"
 },
 "Value": {
 "shape": "String",
 "documentation": "<p>Entitlement data value.</p>"
 },
 "Unit": {
 "shape": "EntitlementDataUnit",
 "documentation": "<p>Entitlement data unit.</p>"
 }
 }
},
"documentation": "<p>Data associated with an entitlement resource.</p>"

```

```

},
"EntitlementDataList":{
 "type":"list",
 "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
 "type":"string",
 "enum":[
 "Count",
 "None",
 "Seconds",
 "Microseconds",
 "Milliseconds",
 "Bytes",
 "Kilobytes",
 "Megabytes",
 "Gigabytes",
 "Terabytes",
 "Bits",
 "Kilobits",
 "Megabits",
 "Gigabits",
 "Terabits",
 "Percent",
 "Bytes/Second",
 "Kilobytes/Second",
 "Megabytes/Second",
 "Gigabytes/Second",
 "Terabytes/Second",
 "Bits/Second",
 "Kilobits/Second",
 "Megabits/Second",
 "Gigabits/Second",
 "Terabits/Second",
 "Count/Second"
]
},
"EntitlementList":{
 "type":"list",
 "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>The entitlement is not allowed.</p>",
 "exception":true
}

```

```

},
"EntitlementUnit":{
 "type":"string",
 "enum":[
 "Count",
 "None",
 "Seconds",
 "Microseconds",
 "Milliseconds",
 "Bytes",
 "Kilobytes",
 "Megabytes",
 "Gigabytes",
 "Terabytes",
 "Bits",
 "Kilobits",
 "Megabits",
 "Gigabits",
 "Terabits",
 "Percent",
 "Bytes/Second",
 "Kilobytes/Second",
 "Megabytes/Second",
 "Gigabytes/Second",
 "Terabytes/Second",
 "Bits/Second",
 "Kilobits/Second",
 "Megabits/Second",
 "Gigabits/Second",
 "Terabits/Second",
 "Count/Second"
]
},
"EntitlementUsage":{
 "type":"structure",
 "required":[
 "Name",
 "ConsumedValue",
 "Unit"
],
 "members":{
 "Name":{
 "shape":"String",
 "documentation":"<p>Entitlement usage name.</p>"
 },
 "ConsumedValue":{
 "shape":"String",
 "documentation":"<p>Resource usage consumed.</p>"
 }
 }
}

```

```

 },
 "MaxCount":{
 "shape":"String",
 "documentation":"<p>Maximum entitlement usage
count.</p>"
 },
 "Unit":{
 "shape":"EntitlementDataUnit",
 "documentation":"<p>Entitlement usage unit.</p>"
 }
 },
 "documentation":"<p>Usage associated with an entitlement resource.</p>"
},
"EntitlementUsageList":{
 "type":"list",
 "member":{"shape":"EntitlementUsage" }
},
"ExtendLicenseConsumptionRequest":{
 "type":"structure",
 "required":["LicenseConsumptionToken"],
 "members":{
 "LicenseConsumptionToken":{
 "shape":"String",
 "documentation":"<p>License consumption token.</p>"
 },
 "DryRun":{
 "shape":"Boolean",
 "documentation":"<p>Checks whether you have the required permissions for the action, without actually
making the request. Provides an error response if you do not have the required permissions.</p>"
 }
 }
},
"ExtendLicenseConsumptionResponse":{
 "type":"structure",
 "members":{
 "LicenseConsumptionToken":{
 "shape":"String",
 "documentation":"<p>License consumption token.</p>"
 },
 "Expiration":{
 "shape":"ISO8601DateTime",
 "documentation":"<p>Date and time at which the license consumption expires.</p>"
 }
 }
},
"FailedDependencyException":{
 "type":"structure",
 "members":{

```



```

 "Message":{"shape":"Message"},
 "ErrorCode":{"shape":"String"}
 },
 "documentation":"<p>A dependency required to run the API is missing.</p>",
 "exception":true
},
"Filter":{
 "type":"structure",
 "members":{
 "Name":{
 "shape":"FilterName",
 "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
 },
 "Values":{
 "shape":"FilterValues",
 "documentation":"<p>Filter values. Filter values are case-sensitive.</p>"
 }
 },
 "documentation":"<p>A filter name and value pair that is used
to return more specific results from a describe operation. Filters can be used to match a set of resources by specific
criteria, such as tags, attributes, or IDs.</p>"
},
"FilterLimitExceededException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>The request uses too many filters or too many filter values.</p>",
 "exception":true
},
"FilterList":{
 "type":"list",
 "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
 "type":"list",
 "member":{"shape":"FilterValue"}
},
"Filters":{
 "type":"list",
 "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
 "type":"structure",
 "required":["Token"],
 "members":{

```

```

"Token":{
 "shape":"TokenString",
 "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
},
"TokenProperties":{
 "shape":"MaxSize3StringList",
 "documentation":"<p>Token properties to validate against those present in the JWT token.</p>"
}
},
"GetAccessTokenResponse":{
 "type":"structure",
 "members":{
 "AccessToken":{
 "shape":"TokenString",
 "documentation":"<p>Temporary access token.</p>"
 }
 }
},
"GetGrantRequest":{
 "type":"structure",
 "required":["GrantArn"],
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>Grant version.</p>"
 }
 }
},
"GetGrantResponse":{
 "type":"structure",
 "members":{
 "Grant":{
 "shape":"Grant",
 "documentation":"<p>Grant details.</p>"
 }
 }
},
"GetLicenseConfigurationRequest":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{
 "shape":"String",

```

```

 "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
}
},
"GetLicenseConfigurationResponse":{
 "type":"structure",
 "members":{
 "LicenseConfigurationId":{
 "shape":"String",
 "documentation": "<p>Unique ID for the license configuration.</p>"
 },
 "LicenseConfigurationArn":{
 "shape":"String",
 "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "Name":{
 "shape":"String",
 "documentation": "<p>Name of the license configuration.</p>"
 },
 "Description":{
 "shape":"String",
 "documentation": "<p>Description of the license configuration.</p>"
 },
 "LicenseCountingType":{
 "shape":"LicenseCountingType",
 "documentation": "<p>Dimension for which the licenses are counted.</p>"
 },
 "LicenseRules":{
 "shape":"StringList",
 "documentation": "<p>License rules.</p>"
 },
 "LicenseCount":{
 "shape":"BoxLong",
 "documentation": "<p>Number of available licenses.</p>"
 },
 "LicenseCountHardLimit":{
 "shape":"BoxBoolean",
 "documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
 },
 "ConsumedLicenses":{
 "shape":"BoxLong",
 "documentation": "<p>Number of licenses assigned to resources.</p>"
 },
 "Status":{
 "shape":"String",
 "documentation": "<p>License configuration status.</p>"
 }
 },

```

```

"OwnerAccountId":{
 "shape":"String",
 "documentation":"<p>Account ID of the owner of the license configuration.</p>"
},
"ConsumedLicenseSummaryList":{
 "shape":"ConsumedLicenseSummaryList",
 "documentation":"<p>Summaries of the licenses consumed by resources.</p>"
},
"ManagedResourceSummaryList":{
 "shape":"ManagedResourceSummaryList",
 "documentation":"<p>Summaries of the managed resources.</p>"
},
"Tags":{
 "shape":"TagList",
 "documentation":"<p>Tags for the license configuration.</p>"
},
"ProductInformationList":{
 "shape":"ProductInformationList",
 "documentation":"<p>Product information.</p>"
},
"AutomatedDiscoveryInformation":{
 "shape":"AutomatedDiscoveryInformation",
 "documentation":"<p>Automated discovery information.</p>"
},
"DisassociateWhenNotFound":{
 "shape":"BoxBoolean",
 "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
}
}
},
"GetLicenseConversionTaskRequest":{
 "type":"structure",
 "required":["LicenseConversionTaskId"],
 "members":{
 "LicenseConversionTaskId":{
 "shape":"LicenseConversionTaskId",
 "documentation":"<p>ID of the license type conversion task to retrieve information on.</p>"
 }
 }
},
"GetLicenseConversionTaskResponse":{
 "type":"structure",
 "members":{
 "LicenseConversionTaskId":{
 "shape":"LicenseConversionTaskId",
 "documentation":"<p>ID of the license type conversion task.</p>"
 }
 },
 "ResourceArn":{

```

```

 "shape": "String",
 "documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is
associated with.</p>"
 },
 "SourceLicenseContext": {
 "shape": "LicenseConversionContext",
 "documentation": "<p>Information about the license type converted from.</p>"
 },
 "DestinationLicenseContext": {
 "shape": "LicenseConversionContext",
 "documentation": "<p>Information
about the license type converted to.</p>"
 },
 "StatusMessage": {
 "shape": "String",
 "documentation": "<p>The status message for the conversion task.</p>"
 },
 "Status": {
 "shape": "LicenseConversionTaskStatus",
 "documentation": "<p>Status of the license type conversion task.</p>"
 },
 "StartTime": {
 "shape": "DateTime",
 "documentation": "<p>Time at which the license type conversion task was started .</p>"
 },
 "LicenseConversionTime": {
 "shape": "DateTime",
 "documentation": "<p>Amount of time to complete the license type conversion.</p>"
 },
 "EndTime": {
 "shape": "DateTime",
 "documentation": "<p>Time at which the license type conversion task was completed.</p>"
 }
}
},
"GetLicenseManagerReportGeneratorRequest": {
 "type": "structure",
 "required": ["LicenseManagerReportGeneratorArn"],
 "members": {
 "LicenseManagerReportGeneratorArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
 }
 }
},
"GetLicenseManagerReportGeneratorResponse": {
 "type": "structure",
 "members": {

```

```

 "ReportGenerator":{
 "shape":"ReportGenerator",
 "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
 }
 },
 "GetLicenseRequest":{
 "type":"structure",
 "required":["LicenseArn"],
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>License version.</p>"
 }
 }
 },
 "GetLicenseResponse":{
 "type":"structure",
 "members":{
 "License":{
 "shape":"License",
 "documentation":"<p>License
details.</p>"
 }
 }
 },
 "GetLicenseUsageRequest":{
 "type":"structure",
 "required":["LicenseArn"],
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
 }
 }
 },
 "GetLicenseUsageResponse":{
 "type":"structure",
 "members":{
 "LicenseUsage":{
 "shape":"LicenseUsage",
 "documentation":"<p>License usage details.</p>"
 }
 }
 }
}

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```

},
"GetServiceSettingsRequest":{
 "type":"structure",
 "members":{
 }
},
"GetServiceSettingsResponse":{
 "type":"structure",
 "members":{
 "S3BucketArn":{
 "shape":"String",
 "documentation":"<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and
so on.</p>"
 },
 "SnsTopicArn":{
 "shape":"String",
 "documentation":"<p>SNS topic configured to receive
notifications from License Manager.</p>"
 },
 "OrganizationConfiguration":{
 "shape":"OrganizationConfiguration",
 "documentation":"<p>Indicates whether Organizations is integrated with License Manager for cross-account
discovery.</p>"
 },
 "EnableCrossAccountsDiscovery":{
 "shape":"BoxBoolean",
 "documentation":"<p>Indicates whether cross-account discovery is enabled.</p>"
 },
 "LicenseManagerResourceShareArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share.</p>"
 }
 }
},
"Grant":{
 "type":"structure",
 "required":[
 "GrantArn",
 "GrantName",
 "ParentArn",
 "LicenseArn",
 "GranteePrincipalArn",
 "HomeRegion",
 "GrantStatus",
 "Version",
 "GrantedOperations"
]
}

```

```

],
"members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
 },
 "GrantName":{
 "shape":"String",
 "documentation":"<p>Grant name.</p>"
 },
 "ParentArn":{
 "shape":"Arn",
 "documentation":"<p>Parent ARN.</p>"
 },
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>License ARN.</p>"
 },
 "GranteePrincipalArn":{
 "shape":"Arn",
 "documentation":"<p>The grantee principal ARN.</p>"
 },
 "HomeRegion":{
 "shape":"String",
 "documentation":"<p>Home Region of the grant.</p>"
 },
 "GrantStatus":{
 "shape":"GrantStatus",
 "documentation":"<p>Grant status.</p>"
 },
 "StatusReason":{
 "shape":"StatusReasonMessage",
 "documentation":"<p>Grant status reason.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>Grant version.</p>"
 },
 "GrantedOperations":{
 "shape":"AllowedOperationList",
 "documentation":"<p>Granted operations.</p>"
 }
},
"documentation":"<p>Describes a grant.</p>"
},
"GrantList":{
 "type":"list",
 "member":{"shape":"Grant"}
}

```



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},
"GrantStatus":{
 "type":"string",
 "enum":[
 "PENDING_WORKFLOW",
 "PENDING_ACCEPT",
 "REJECTED",
 "ACTIVE",
 "FAILED_WORKFLOW",
 "DELETED",
 "PENDING_DELETE",
 "DISABLED",
 "WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
 "type":"structure",
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "LicenseName":{
 "shape":"String",
 "documentation":"<p>License name.</p>"
 },
 "ProductName":{
 "shape":"String",
 "documentation":"<p>Product name.</p>"
 },
 "ProductSKU":{
 "shape":"String",
 "documentation":"<p>Product SKU.</p>"
 },
 "Issuer":{
 "shape":"IssuerDetails",
 "documentation":"<p>Granted license issuer.</p>"
 },
 "HomeRegion":{
 "shape":"String",
 "documentation":"<p>Home Region of the granted license.</p>"
 },
 "Status":{
 "shape":"LicenseStatus",
 "documentation":"<p>Granted license status.</p>"
 },
 "Validity":{

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```

 "shape": "DatetimeRange",
 "documentation": "<p>Date and time range during which the granted license is valid, in ISO8601-UTC
format.</p>"
 },
 "Beneficiary": {
 "shape": "String",
 "documentation": "<p>Granted license beneficiary.</p>"
 },
 "Entitlements": {
 "shape": "EntitlementList",
 "documentation": "<p>License entitlements.</p>"
 },
 "ConsumptionConfiguration": {
 "shape": "ConsumptionConfiguration",
 "documentation": "<p>Configuration for consumption of the license.</p>"
 },
 "LicenseMetadata": {
 "shape": "MetadataList",
 "documentation": "<p>Granted license metadata.</p>"
 },
 "CreateTime": {
 "shape": "ISO8601DateTime",
 "documentation": "<p>Creation time of the granted license.</p>"
 },
 "Version": {
 "shape": "String",
 "documentation": "<p>Version of the granted license.</p>"
 },
 "ReceivedMetadata": {
 "shape": "ReceivedMetadata",
 "documentation": "<p>Granted license received metadata.</p>"
 }
},
"documentation": "<p>Describes a license that is granted to a grantee.</p>"
},
"GrantedLicenseList": {
 "type": "list",
 "member": { "shape": "GrantedLicense" }
},
"ISO8601DateTime": {
 "type": "string",
 "max": 50,
 "pattern": "^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2)[0-9]T(2[0-3]|0[0-1]|0-9):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|0-9)[0-1][0-9]):[0-5][0-9]+)$"
},
"Integer": { "type": "integer" },
"InvalidParameterValueException": {
 "type": "structure",

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"members":{
 "Message":{"shape":"Message"}
},
"documentation":"<p>One or more parameter values are not valid.</p>",
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For
example, you cannot allocate a license to an instance in the process of shutting down.</p>",
 "exception":true
},
"InventoryFilter":{
 "type":"structure",
 "required":[
 "Name",
 "Condition"
],
 "members":{
 "Name":{
 "shape":"String",
 "documentation":"<p>Name of the filter.</p>"
 },
 "Condition":{
 "shape":"InventoryFilterCondition",
 "documentation":"<p>Condition of the filter.</p>"
 },
 "Value":{
 "shape":"String",
 "documentation":"<p>Value of the filter.</p>"
 }
 },
 "documentation":"<p>An inventory filter.</p>"
},
"InventoryFilterCondition":{
 "type":"string",
 "enum":[
 "EQUALS",
 "NOT_EQUALS",
 "BEGINS_WITH",
 "CONTAINS"
]
},

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"InventoryFilterList":{
 "type":"list",
 "member":{"shape":"InventoryFilter"}
},
"Issuer":{
 "type":"structure",
 "required":["Name"],
 "members":{
 "Name":{
 "shape":"String",
 "documentation":"<p>Issuer name.</p>"
 },
 "SignKey":{
 "shape":"String",
 "documentation":"<p>Asymmetric KMS key from Key Management
Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
 }
 },
 "documentation":"<p>Details about the issuer of a license.</p>"
},
"IssuerDetails":{
 "type":"structure",
 "members":{
 "Name":{
 "shape":"String",
 "documentation":"<p>Issuer name.</p>"
 },
 "SignKey":{
 "shape":"String",
 "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
 },
 "KeyFingerprint":{
 "shape":"String",
 "documentation":"<p>Issuer key fingerprint.</p>"
 }
 },
 "documentation":"<p>Details associated with the issuer of a license.</p>"
},
"License":{
 "type":"structure",
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon
Resource Name (ARN) of the license.</p>"
 }
 },

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"LicenseName":{
 "shape":"String",
 "documentation":"<p>License name.</p>"
},
"ProductName":{
 "shape":"String",
 "documentation":"<p>Product name.</p>"
},
"ProductSKU":{
 "shape":"String",
 "documentation":"<p>Product SKU.</p>"
},
"Issuer":{
 "shape":"IssuerDetails",
 "documentation":"<p>License issuer.</p>"
},
"HomeRegion":{
 "shape":"String",
 "documentation":"<p>Home Region of the license.</p>"
},
"Status":{
 "shape":"LicenseStatus",
 "documentation":"<p>License status.</p>"
},
"Validity":{
 "shape":"DatetimeRange",
 "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
},
"Beneficiary":{
 "shape":"String",
 "documentation":"<p>License
beneficiary.</p>"
},
"Entitlements":{
 "shape":"EntitlementList",
 "documentation":"<p>License entitlements.</p>"
},
"ConsumptionConfiguration":{
 "shape":"ConsumptionConfiguration",
 "documentation":"<p>Configuration for consumption of the license.</p>"
},
"LicenseMetadata":{
 "shape":"MetadataList",
 "documentation":"<p>License metadata.</p>"
},
"CreateTime":{
 "shape":"ISO8601DateTime",
 "documentation":"<p>License creation time.</p>"

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 },
 "Version":{
 "shape":"String",
 "documentation":"<p>License version.</p>"
 }
 },
 "documentation":"<p>Software license that is managed in License Manager.</p>"
},
"LicenseConfiguration":{
 "type":"structure",
 "members":{
 "LicenseConfigurationId":{
 "shape":"String",
 "documentation":"<p>Unique ID of the license
configuration.</p>"
 },
 "LicenseConfigurationArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "Name":{
 "shape":"String",
 "documentation":"<p>Name of the license configuration.</p>"
 },
 "Description":{
 "shape":"String",
 "documentation":"<p>Description of the license configuration.</p>"
 },
 "LicenseCountingType":{
 "shape":"LicenseCountingType",
 "documentation":"<p>Dimension to use to track the license inventory.</p>"
 },
 "LicenseRules":{
 "shape":"StringList",
 "documentation":"<p>License rules.</p>"
 },
 "LicenseCount":{
 "shape":"BoxLong",
 "documentation":"<p>Number of licenses managed by the license configuration.</p>"
 },
 "LicenseCountHardLimit":{
 "shape":"BoxBoolean",
 "documentation":"<p>Number
of available licenses as a hard limit.</p>"
 },
 "DisassociateWhenNotFound":{
 "shape":"BoxBoolean",
 "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
 }
 }
}

```

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 },
 "ConsumedLicenses":{
 "shape":"BoxLong",
 "documentation":"<p>Number of licenses consumed. </p>"
 },
 "Status":{
 "shape":"String",
 "documentation":"<p>Status of the license configuration.</p>"
 },
 "OwnerAccountId":{
 "shape":"String",
 "documentation":"<p>Account ID of the license configuration's owner.</p>"
 },
 "ConsumedLicenseSummaryList":{
 "shape":"ConsumedLicenseSummaryList",
 "documentation":"<p>Summaries for licenses consumed by various resources.</p>"
 },
 "ManagedResourceSummaryList":{
 "shape":"ManagedResourceSummaryList",
 "documentation":"<p>Summaries for managed resources.</p>"
 },
 "ProductInformationList":{
 "shape":"ProductInformationList",
 "documentation":"<p>Product information.</p>"
 },
 "AutomatedDiscoveryInformation":{
 "shape":"AutomatedDiscoveryInformation",
 "documentation":"<p>Automated discovery information.</p>"
 }
 },
 "documentation":"<p>A license configuration is an abstraction of a customer license agreement that can be
consumed and enforced by License Manager. Components include specifications for the license type (licensing by
instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of
these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and
used.</p>"
},
"LicenseConfigurationAssociation":{
 "type":"structure",
 "members":{
 "ResourceArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN)
of the resource.</p>"
 },
 "ResourceType":{
 "shape":"ResourceType",
 "documentation":"<p>Type of server resource.</p>"
 }
 }
},

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"ResourceOwnerId":{
 "shape":"String",
 "documentation":"<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
},
"AssociationTime":{
 "shape":"DateTime",
 "documentation":"<p>Time when the license configuration was associated with the resource.</p>"
},
"AmiAssociationScope":{
 "shape":"String",
 "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
}
},
"documentation":"<p>Describes an association with a license configuration.</p>"
},
"LicenseConfigurationAssociations":{
 "type":"list",
 "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
 "type":"string",
 "enum":[
 "AVAILABLE",
 "DISABLED"
]
},
"LicenseConfigurationUsage":{
 "type":"structure",
 "members":{
 "ResourceArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
 },
 "ResourceType":{
 "shape":"ResourceType",
 "documentation":"<p>Type of resource.</p>"
 },
 "ResourceStatus":{
 "shape":"String",
 "documentation":"<p>Status of the resource.</p>"
 },
 "ResourceOwnerId":{
 "shape":"String",
 "documentation":"<p>ID of the account that owns the resource.</p>"
 },
 "AssociationTime":{
 "shape":"DateTime",

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 "documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
 },
 "ConsumedLicenses": {
 "shape": "BoxLong",
 "documentation": "<p>Number of licenses consumed by the resource.</p>"

 }
},
"documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList": {
 "type": "list",
 "member": { "shape": "LicenseConfigurationUsage" }
},
"LicenseConfigurations": {
 "type": "list",
 "member": { "shape": "LicenseConfiguration" }
},
"LicenseConversionContext": {
 "type": "structure",
 "members": {
 "UsageOperation": {
 "shape": "UsageOperation",
 "documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform </p>"
 }
 }
},
"documentation": "<p>Information about a license type conversion task.</p>"
},
"LicenseConversionTask": {
 "type": "structure",
 "members": {
 "LicenseConversionTaskId": {
 "shape": "LicenseConversionTaskId",
 "documentation": "<p>The ID of the license type conversion task.</p>"
 },
 "ResourceArn": {
 "shape": "String",
 "documentation": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>"
 }
 },
 "SourceLicenseContext": {
 "shape": "LicenseConversionContext",
 "documentation": "<p>Information about the license type this conversion task converted from.</p>"
 },
 "DestinationLicenseContext": {

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 "shape":"LicenseConversionContext",
 "documentation":"<p>Information about the license type this conversion task converted to.</p>"
 },
 "Status":{
 "shape":"LicenseConversionTaskStatus",
 "documentation":"<p>The status of the conversion task.</p>"
 },
 "StatusMessage":{
 "shape":"String",
 "documentation":"<p>The status message for the conversion task.</p>"
 },
 "StartTime":{
 "shape":"DateTime",
 "documentation":"<p>The time the conversion task was started at.</p>"
 },
 "LicenseConversionTime":{
 "shape":"DateTime",
 "documentation":"<p>The time the usage operation value of the resource was changed.</p>"
 },
 "EndTime":{
 "shape":"DateTime",
 "documentation":"<p>The time the conversion task was completed.</p>"
 }
},
"documentation":"<p>Information about a license type conversion task.</p>"
},
"LicenseConversionTaskId":{
 "type":"string",
 "max":50,
 "pattern":"^\\{t-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
 "type":"string",
 "enum":[
 "IN_PROGRESS",
 "SUCCEEDED",
 "FAILED"
]
},
"LicenseConversionTasks":{
 "type":"list",
 "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
 "type":"string",
 "enum":[
 "vCPU",

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 "Instance",
 "Core",
 "Socket"
]
},
"LicenseDeletionStatus":{
 "type":"string",
 "enum":[
 "PENDING_DELETE",
 "DELETED"
]
},
"LicenseList":{
 "type":"list",
 "member":{"shape":"License"}
},
"LicenseOperationFailure":{
 "type":"structure",
 "members":{
 "ResourceArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
 },
 "ResourceType":{
 "shape":"ResourceType",
 "documentation":"<p>Resource type.</p>"
 },
 "ErrorMessage":{
 "shape":"String",
 "documentation":"<p>Error message.</p>"
 },
 "FailureTime":{
 "shape":"DateTime",
 "documentation":"<p>Failure time.</p>"
 },
 "OperationName":{
 "shape":"String",
 "documentation":"<p>Name of the operation.</p>"
 },
 "ResourceOwnerId":{
 "shape":"String",
 "documentation":"<p>ID of the Amazon Web Services account that owns the resource.</p>"
 },
 "OperationRequestedBy":{
 "shape":"String",
 "documentation":"<p>The requester is \"License Manager Automated Discovery\".</p>"
 },
 "MetadataList":{

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 "shape":"MetadataList",
 "documentation":"<p>Reserved.</p>"
 }
},
"documentation":"<p>Describes the failure of a license operation.</p>"
},
"LicenseOperationFailureList":{
 "type":"list",
 "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "AmiAssociationScope":{
 "shape":"String",
 "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
 }
 },
 "documentation":"<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications":{
 "type":"list",
 "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
 "type":"string",
 "enum":[
 "AVAILABLE",
 "PENDING_AVAILABLE",
 "DEACTIVATED",
 "SUSPENDED",
 "EXPIRED",
 "PENDING_DELETE",
 "DELETED"
]
},
"LicenseUsage":{
 "type":"structure",
 "members":{
 "EntitlementUsages":{
 "shape":"EntitlementUsageList",
 "documentation":"<p>License entitlement usages.</p>"
 }
 }
}

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 },
 "documentation": "<p>Describes the entitlement usage associated with a license.</p>"
 },
 "LicenseUsageException": {
 "type": "structure",
 "members": {
 "Message": { "shape": "Message" }
 },
 "documentation": "<p>You do not have enough licenses available to support a new resource launch.</p>",
 "exception": true
 },
 "ListAssociationsForLicenseConfigurationRequest": {
 "type": "structure",
 "required": ["LicenseConfigurationArn"],
 "members": {
 "LicenseConfigurationArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>"
 },
 "MaxResults": {
 "shape": "BoxInteger",
 "documentation": "<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "ListAssociationsForLicenseConfigurationResponse": {
 "type": "structure",
 "members": {
 "LicenseConfigurationAssociations": {
 "shape": "LicenseConfigurationAssociations",
 "documentation": "<p>Information about the associations for the license configuration.</p>"
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 }
 }
 },
 "ListDistributedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "shape": "ArnList",
 "documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 }
 }
 }

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 },
 "Filters":{
 "shape":"FilterList",
 "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <p>
<code>LicenseArn</code> </p> <p> <code>GrantStatus</code> </p> <p>
<code>GranteePrincipalARN</code> </p> <p> <code>ProductSKU</code> </p> <p>
<code>LicenseIssuerName</code> </p> "
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token
for the next set of results.</p>"
 },
 "MaxResults":{
 "shape":"MaxSize100",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"ListDistributedGrantsResponse":{
 "type":"structure",
 "members":{
 "Grants":{
 "shape":"GrantList",
 "documentation":"<p>Distributed grant details.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name of the license configuration.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results
to return in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
}

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 }
 }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
 "type":"structure",
 "members":{
 "LicenseOperationFailureList":{
 "shape":"LicenseOperationFailureList",
 "documentation":"<p>License configuration operations that failed.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListLicenseConfigurationsRequest":{
 "type":"structure",
 "members":{
 "LicenseConfigurationArns":{
 "shape":"StringList",
 "documentation":"<p>Amazon Resource Names (ARN) of the license configurations.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return
in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "Filters":{
 "shape":"Filters",
 "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted.
Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p>
<code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p>
<code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been
exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
 "
 }
 }
},
"ListLicenseConfigurationsResponse":{
 "type":"structure",

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"members":{
 "LicenseConfigurations":{
 "shape":"LicenseConfigurations",
 "documentation":"<p>Information about the license configurations.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
}
},
"ListLicenseConversionTasksRequest":{
 "type":"structure",
 "members":{
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },
 "Filters":{
 "shape":"Filters",
 "documentation":"<p>Filters to scope the results. Valid filters are <code>ResourceArns</code> and
<code>Status</code>."
 }
 }
},
"ListLicenseConversionTasksResponse":{
 "type":"structure",
 "members":{
 "LicenseConversionTasks":{
 "shape":"LicenseConversionTasks",
 "documentation":"<p>Information about the license configuration tasks for your account.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListLicenseManagerReportGeneratorsRequest":{
 "type":"structure",
 "members":{
 "Filters":{
 "shape":"FilterList",

```



```

 "documentation": "<p>Filters to scope the results. The following filters are supported: </p> <p>
<code>LicenseConfigurationArn</code> </p> "
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 },
 "MaxResults": {
 "shape": "MaxSize100",
 "documentation": "<p>Maximum
number of results to return in a single call.</p>"
 }
},
"ListLicenseManagerReportGeneratorsResponse": {
 "type": "structure",
 "members": {
 "ReportGenerators": {
 "shape": "ReportGeneratorList",
 "documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"ListLicenseSpecificationsForResourceRequest": {
 "type": "structure",
 "required": ["ResourceArn"],
 "members": {
 "ResourceArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
 }
 },
 "MaxResults": {
 "shape": "BoxInteger",
 "documentation": "<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 }
},
"ListLicenseSpecificationsForResourceResponse": {

```

```

"type":"structure",
"members":{
 "LicenseSpecifications":{
 "shape":"LicenseSpecifications",
 "documentation":"<p>License configurations associated with a resource.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
}
},
"ListLicenseVersionsRequest":{
 "type":"structure",
 "required":["LicenseArn"],
 "members":{
 "LicenseArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "MaxResults":{
 "shape":"MaxSize100",

"documentation":"<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"ListLicenseVersionsResponse":{
 "type":"structure",
 "members":{
 "Licenses":{
 "shape":"LicenseList",
 "documentation":"<p>License details.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListLicensesRequest":{
 "type":"structure",
 "members":{
 "LicenseArns":{

```

```

 "shape": "ArnList",
 "documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 },
 "Filters": {
 "shape": "FilterList",
 "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <p>
<code>Beneficiary</code> </p> <p> <code>ProductSKU</code> </p> <p>
<code>Fingerprint</code> </p> <p> <code>Status</code> </p> "
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 },
 "MaxResults": {
 "shape": "MaxSize100",
 "documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
}
},
"ListLicensesResponse": {
 "type": "structure",
 "members": {
 "Licenses": {
 "shape": "LicenseList",
 "documentation": "<p>License details.</p>"
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"ListReceivedGrantsForOrganizationRequest": {
 "type": "structure",
 "required": ["LicenseArn"],
 "members": {
 "LicenseArn": {
 "shape": "Arn",
 "documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>"
 },
 "Filters": {
 "shape": "FilterList",
 "documentation": "<p>Filters
to scope the results. The following filters are supported:</p> <p> <code>ParentArn</code> </p>
 <p> <code>GranteePrincipalArn</code> </p> "
 },
 "NextToken": {
 "shape": "String",

```

```

 "documentation": "<p>Token for the next set of results.</p>"
 },
 "MaxResults": {
 "shape": "MaxSize100",
 "documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
},
"ListReceivedGrantsForOrganizationResponse": {
 "type": "structure",
 "members": {
 "Grants": {
 "shape": "GrantList",
 "documentation": "<p>Lists the grants the organization has received.</p>"
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 }
 }
},
"ListReceivedGrantsRequest": {
 "type": "structure",
 "members": {
 "GrantArns": {
 "shape": "ArnList",
 "documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
 },
 "Filters": {
 "shape": "FilterList",
 "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <p><code>ProductSKU</code> </p> <p> <code>LicenseIssuerName</code> </p> <p><code>LicenseArn</code> </p> <p> <code>GrantStatus</code> </p> <p><code>GranterAccountId</code> </p> "
 },
 "NextToken": {
 "shape": "String",
 "documentation": "<p>Token for the next set of results.</p>"
 },
 "MaxResults": {
 "shape": "MaxSize100",
 "documentation": "<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"ListReceivedGrantsResponse": {
 "type": "structure",
 "members": {

```

```

"Grants":{
 "shape":"GrantList",
 "documentation":"<p>Received grant details.</p>"
},
"NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
}
},
"ListReceivedLicensesForOrganizationRequest":{
 "type":"structure",
 "members":{
 "Filters":{
 "shape":"FilterList",
 "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <p>
<code>Beneficiary</code> </p> <p> <code>ProductSKU</code> </p> "
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "MaxResults":{
 "shape":"MaxSize100",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"ListReceivedLicensesForOrganizationResponse":{
 "type":"structure",
 "members":{
 "Licenses":{
 "shape":"GrantedLicenseList",
 "documentation":"<p>Lists
the licenses the organization has received.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListReceivedLicensesRequest":{
 "type":"structure",
 "members":{
 "LicenseArns":{
 "shape":"ArnList",
 "documentation":"<p>Amazon Resource Names (ARNs) of the licenses.</p>"
 }
 }
}

```

```

 },
 "Filters":{
 "shape":"FilterList",
 "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <p>
<code>ProductSKU</code> </p> <p> <code>Status</code> </p> <p>
<code>Fingerprint</code> </p> <p> <code>IssuerName</code> </p> <p>
<code>Beneficiary</code> </p> "
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "MaxResults":{
 "shape":"MaxSize100",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 }
 }
},
"ListReceivedLicensesResponse":{
 "type":"structure",
 "members":{
 "Licenses":{
 "shape":"GrantedLicenseList",
 "documentation":"<p>Received license details.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListResourceInventoryRequest":{
 "type":"structure",
 "members":{
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 },
 "Filters":{
 "shape":"InventoryFilterList",
 "documentation":"<p>Filters to scope the results. The following filters
and logical operators are supported:</p> <p> <code>account_id</code> - The ID of the Amazon Web
Services account that owns the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> <p> <code>application_name</code> - The name of the

```

application. Logical operators are `EQUALS` | `BEGINS_WITH`.

`license_included` - The type of license included. Logical operators are `EQUALS` | `NOT_EQUALS`. Possible values are `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

`platform` - The platform of the resource. Logical operators are `EQUALS` | `BEGINS_WITH`.

`resource_id` - The ID of the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.

`tag:&lt;key&gt;` - The key/value combination of a tag assigned to the resource. Logical operators are `EQUALS` (single account) or `EQUALS` | `NOT_EQUALS` (cross account).

```

 }
 }
},
"ListResourceInventoryResponse":{
 "type":"structure",
 "members":{
 "ResourceInventoryList":{
 "shape":"ResourceInventoryList",
 "documentation":"<p>Information about the resources.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListTagsForResourceRequest":{
 "type":"structure",
 "required":["ResourceArn"],
 "members":{
 "ResourceArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 }
 }
},
"ListTagsForResourceResponse":{
 "type":"structure",
 "members":{
 "Tags":{
 "shape":"TagList",
 "documentation":"<p>Information about the tags.</p>"
 }
 }
},
"ListTokensRequest":{
 "type":"structure",
 "members":{

```

```

"TokenIds":{
 "shape":"StringList",
 "documentation":"<p>Token IDs.</p>"
},
"Filters":{
 "shape":"FilterList",
 "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <p>
<code>LicenseArns</code> </p> "
},
"NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
},
"MaxResults":{
 "shape":"MaxSize100",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
}
}
},
"ListTokensResponse":{
 "type":"structure",
 "members":{
 "Tokens":{
 "shape":"TokenList",
 "documentation":"<p>Received token details.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"ListUsageForLicenseConfigurationRequest":{
 "type":"structure",
 "required":["LicenseConfigurationArn"],
 "members":{
 "LicenseConfigurationArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "MaxResults":{
 "shape":"BoxInteger",
 "documentation":"<p>Maximum number of results to return in a single call.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
}

```



```

 },
 "Filters":{
 "shape":"Filters",
 "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <p> <code>resourceArn</code> - The ARN of the license configuration resource.
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p>
<code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> |
<code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>resourceAccount</code>
- The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> "
 }
}
},
"ListUsageForLicenseConfigurationResponse":{
 "type":"structure",
 "members":{
 "LicenseConfigurationUsageList":{
 "shape":"LicenseConfigurationUsageList",
 "documentation":"<p>Information about the license configurations.</p>"
 },
 "NextToken":{
 "shape":"String",
 "documentation":"<p>Token for the next set of results.</p>"
 }
 }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
 "type":"structure",
 "members":{
 "ResourceType":{
 "shape":"ResourceType",
 "documentation":"<p>Type of resource associated with a license.</p>"
 },
 "AssociationCount":{
 "shape":"BoxLong",
 "documentation":"<p>Number of resources associated with licenses.</p>"
 }
 },
 "documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
 "type":"list",
 "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{

```

```

 "type":"integer",
 "max":100,
 "min":1
 },
 "MaxSize3StringList":{
 "type":"list",
 "member":{"shape":"String"},
 "max":3
 },
 "Message":{"type":"string"},
 "Metadata":{
 "type":"structure",
 "members":{
 "Name":{
 "shape":"String",
 "documentation":"<p>The key name.</p>"
 },
 "Value":{
 "shape":"String",
 "documentation":"<p>The value.</p>"
 }
 },
 "documentation":"<p>Describes key/value pairs.</p>"
 },
 "MetadataList":{
 "type":"list",
 "member":{"shape":"Metadata"}
 },
 "NoEntitlementsAllowedException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>There are no entitlements found for this license, or the entitlement maximum count is
reached.</p>",
 "exception":true
 },
 "OrganizationConfiguration":{
 "type":"structure",
 "required":["EnableIntegration"],
 "members":{
 "EnableIntegration":{
 "shape":"Boolean",
 "documentation":"<p>Enables Organizations integration.</p>"
 }
 },
 "documentation":"<p>Configuration information for Organizations.</p>"
 },
}

```

```

"PrincipalArnList":{
 "type":"list",
 "member":{"shape":"Arn"},
 "max":1,
 "min":1
},

"ProductInformation":{
 "type":"structure",
 "required":[
 "ResourceType",
 "ProductInformationFilterList"
],
 "members":{
 "ResourceType":{
 "shape":"String",
 "documentation":"<p>Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>"
 },
 "ProductInformationFilterList":{
 "shape":"ProductInformationFilterList",
 "documentation":"<p>A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. </p><p>Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.</p><p>The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:</p><p><code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.</p><p><code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p><p><code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.</p><p><code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.</p><p><code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.</p><p><code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key. </p><p><code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.</p><p><code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p><p>The following filters and logical operators are supported when the resource type is <code>RDS</code>:</p><p><code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p><p><code>License Pack</code> - The license pack. Logical operator

```

is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.</p></li></ul>"

```
 }
 },
 "documentation": "<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter": {
 "type": "structure",
 "required": [
 "ProductInformationFilterName",
 "ProductInformationFilterComparator"
],
 "members": {
 "ProductInformationFilterName": {
 "shape": "String",
 "documentation": "<p>Filter name.</p>"
 },
 "ProductInformationFilterValue": {
 "shape": "StringList",
 "documentation": "<p>Filter value.</p>"
 },
 "ProductInformationFilterComparator": {
 "shape": "String",
 "documentation": "<p>Logical operator.</p>"
 }
 },
 "documentation": "<p>Describes product information filters.</p>"
},
"ProductInformationFilterList": {
 "type": "list",
 "member": { "shape": "ProductInformationFilter" }
},
"ProductInformationList": {
 "type": "list",
 "member": { "shape": "ProductInformation" }
},
"ProvisionalConfiguration": {
 "type": "structure",
 "required": ["MaxTimeToLiveInMinutes"],
 "members": {
 "MaxTimeToLiveInMinutes": {
 "shape": "BoxInteger",
 "documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>"
 }
 },
 "documentation": "<p>Details about a provisional configuration.</p>"
},
"RateLimitExceededException": {
```

```

"type":"structure",
"members":{
 "Message":{"shape":"Message"}
},
"documentation":"<p>Too many requests have been submitted. Try again after a brief wait.</p>",
"exception":true
},
"ReceivedMetadata":{
"type":"structure",
"members":{
 "ReceivedStatus":{
 "shape":"ReceivedStatus",
 "documentation":"<p>Received
status.</p>"
 },
 "ReceivedStatusReason":{
 "shape":"StatusReasonMessage",
 "documentation":"<p>Received status reason.</p>"
 },
 "AllowedOperations":{
 "shape":"AllowedOperationList",
 "documentation":"<p>Allowed operations.</p>"
 }
},
"documentation":"<p>Metadata associated with received licenses and grants.</p>"
},
"ReceivedStatus":{
"type":"string",
"enum":[
 "PENDING_WORKFLOW",
 "PENDING_ACCEPT",
 "REJECTED",
 "ACTIVE",
 "FAILED_WORKFLOW",
 "DELETED",
 "DISABLED",
 "WORKFLOW_COMPLETED"
]
},
"RedirectException":{
"type":"structure",
"members":{
 "Location":{"shape":"Location"},
 "Message":{"shape":"Message"}
},
"documentation":"<p>This is not the correct Region for the resource. Try again.</p>",
"exception":true
},

```

```

"RejectGrantRequest":{
 "type":"structure",
 "required":["GrantArn"],
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
 }
 }
},
"RejectGrantResponse":{
 "type":"structure",
 "members":{
 "GrantArn":{
 "shape":"Arn",
 "documentation":"<p>Grant ARN.</p>"
 },
 "Status":{
 "shape":"GrantStatus",
 "documentation":"<p>Grant status.</p>"
 },
 "Version":{
 "shape":"String",
 "documentation":"<p>Grant version.</p>"
 }
 }
},
"RenewType":{
 "type":"string",
 "enum":[
 "None",
 "Weekly",
 "Monthly"
]
},
"ReportContext":{
 "type":"structure",
 "required":["licenseConfigurationArns"],
 "members":{
 "licenseConfigurationArns":{
 "shape":"ArnList",
 "documentation":"<p>Amazon Resource Name (ARN) of the
license configuration that this generator reports on.</p>"
 }
 },
 "documentation":"<p>Details of the license configuration that this generator reports on.</p>"
},
"ReportFrequency":{

```

```

"type":"structure",
"members":{
 "value":{
 "shape":"Integer",
 "documentation":"<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
 },
 "period":{
 "shape":"ReportFrequencyType",
 "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
 }
},
"documentation":"<p>Details about how frequently reports are generated.</p>"
},
"ReportFrequencyType":{
 "type":"string",
 "enum":[
 "DAY",
 "WEEK",
 "MONTH"
]
},
"ReportGenerator":{
 "type":"structure",
 "members":{
 "ReportGeneratorName":{
 "shape":"String",
 "documentation":"<p>Name of the report generator.</p>"
 },
 "ReportType":{
 "shape":"ReportTypeList",
 "documentation":"<p>Type of reports that are generated.</p>"
 },
 "ReportContext":{
 "shape":"ReportContext",
 "documentation":"<p>License configuration type for this generator.</p>"
 },
 "ReportFrequency":{
 "shape":"ReportFrequency",
 "documentation":"<p>Details about how frequently reports are generated.</p>"
 },
 "LicenseManagerReportGeneratorArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
 },
 "LastRunStatus":{
 "shape":"String",
 "documentation":"<p>Status of the last report generation attempt.</p>"
 }
 }
}

```

```

 },
 "LastRunFailureReason":{
 "shape":"String",
 "documentation":"<p>Failure message for the last report generation attempt.</p>"
 },
 "LastReportGenerationTime":{
 "shape":"String",
 "documentation":"<p>Time the last report was generated at.</p>"
 },
 "ReportCreatorAccount":{
 "shape":"String",
 "documentation":"<p>The Amazon Web Services account ID used to create the report generator.</p>"
 },
 "Description":{
 "shape":"String",
 "documentation":"<p>Description of the report generator.</p>"
 },
 "S3Location":{
 "shape":"S3Location",
 "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
 },
 "CreateTime":{
 "shape":"String",
 "documentation":"<p>Time the report was created.</p>"
 },
 "Tags":{
 "shape":"TagList",
 "documentation":"<p>Tags associated with the report generator.</p>"
 }
 },
 "documentation":"<p>Describe the details of a report generator.</p>"
},
"ReportGeneratorList":{
 "type":"list",
 "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
 "type":"string",
 "max":100,
 "min":1
},
"ReportType":{
 "type":"string",
 "enum":[
 "LicenseConfigurationSummaryReport",
 "LicenseConfigurationUsageReport"
]
}

```



```

},
"ReportTypeList":{
 "type":"list",
 "member":{"shape":"ReportType"}
},
"ResourceInventory":{
 "type":"structure",
 "members":{
 "ResourceId":{
 "shape":"String",
 "documentation":"<p>ID of the resource.</p>"
 },
 "ResourceType":{
 "shape":"ResourceType",
 "documentation":"<p>Type of resource.</p>"
 },
 "ResourceArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
 },
 "Platform":{
 "shape":"String",
 "documentation":"<p>Platform of the resource.</p>"
 },
 "PlatformVersion":{
 "shape":"String",
 "documentation":"<p>Platform version of the resource in the inventory.</p>"
 },
 "ResourceOwningAccountId":{
 "shape":"String",
 "documentation":"<p>ID of the account that owns the resource.</p>"
 }
 },
 "documentation":"<p>Details about a resource.</p>"
},
"ResourceInventoryList":{
 "type":"list",
 "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
 "type":"structure",
 "members":{
 "Message":{"shape":"Message"}
 },
 "documentation":"<p>Your resource limits have been exceeded.</p>",
 "exception":true
},
"ResourceNotFoundException":{

```

```

"type":"structure",
"members":{
 "Message":{"shape":"Message"}
},
"documentation":"<p>The resource cannot be found.</p>",
"exception":true
},
"ResourceType":{
"type":"string",
"enum":[
 "EC2_INSTANCE",
 "EC2_HOST",
 "EC2_AMI",
 "RDS",
 "SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{
"type":"structure",
"members":{
 "bucket":{
 "shape":"String",
 "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
 },
 "keyPrefix":{
 "shape":"String",
 "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
 }
},
"documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
"type":"structure",
"members":{
 "Message":{"shape":"Message"}
},
"documentation":"<p>The server experienced an internal error. Try again.</p>",
"exception":true,
"fault":true
},
"SignedToken":{
"type":"string",
"min":4096
},
"StatusReasonMessage":{
"type":"string",
"max":400,

```

```

 "pattern": "[\\s\\S]+"
 },
 "String": { "type": "string" },
 "StringList": {
 "type": "list",
 "member": { "shape": "String" }
 },
 "Tag": {
 "type": "structure",
 "members": {
 "Key": {
 "shape": "String",
 "documentation": "<p>Tag key.</p>"
 },
 "Value": {
 "shape": "String",
 "documentation": "<p>Tag value.</p>"
 }
 },
 "documentation": "<p>Details about a tag for a license configuration.</p>"
 },
 "TagKeyList": {
 "type": "list",
 "member": { "shape": "String" }
 },
 "TagList": {
 "type": "list",
 "member": { "shape": "Tag" }
 },
 "TagResourceRequest": {
 "type": "structure",
 "required": [
 "ResourceArn",
 "Tags"
],
 "members": {
 "ResourceArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "Tags": {
 "shape": "TagList",

 "documentation": "<p>One or more tags.</p>"
 }
 }
 },
 "TagResourceResponse": {

```

```

 "type": "structure",
 "members": {
 }
 },
 "TokenData": {
 "type": "structure",
 "members": {
 "TokenId": {
 "shape": "String",
 "documentation": "<p>Token ID.</p>"
 },
 "TokenType": {
 "shape": "String",
 "documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
 },
 "LicenseArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
 },
 "ExpirationTime": {
 "shape": "ISO8601DateTime",
 "documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
 },
 "TokenProperties": {
 "shape": "MaxSize3StringList",
 "documentation": "<p>Data specified by the caller.</p>"
 },
 "RoleArns": {
 "shape": "ArnList",
 "documentation": "<p>Amazon
Resource Names (ARN) of the roles included in the token.</p>"
 },
 "Status": {
 "shape": "String",
 "documentation": "<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>"
 }
 }
 },
 "documentation": "<p>Describes a token.</p>"
},
"TokenList": {
 "type": "list",
 "member": { "shape": "TokenData" }
},
"TokenString": {
 "type": "string",
 "max": 4096,

```

```

 "pattern": "\\S+"
 },
 "TokenType": {
 "type": "string",
 "enum": ["REFRESH_TOKEN"]
 },
 "UnsupportedDigitalSignatureMethodException": {
 "type": "structure",
 "members": {
 "Message": { "shape": "Message" }
 },
 "documentation": "<p>The digital signature method is unsupported. Try your request again.</p>",
 "exception": true
 },
 "UntagResourceRequest": {
 "type": "structure",
 "required": [
 "ResourceArn",
 "TagKeys"
],
 "members": {
 "ResourceArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "TagKeys": {
 "shape": "TagKeyList",
 "documentation": "<p>Keys identifying the tags to remove.</p>"
 }
 }
 },
 "UntagResourceResponse": {
 "type": "structure",
 "members": {
 }
 },
 "UpdateLicenseConfigurationRequest": {
 "type": "structure",
 "required": ["LicenseConfigurationArn"],
 "members": {
 "LicenseConfigurationArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
 },
 "LicenseConfigurationStatus": {
 "shape": "LicenseConfigurationStatus",
 "documentation": "<p>New status of the license configuration.</p>"
 }
 }
 },

```

```

"LicenseRules":{
 "shape":"StringList",
 "documentation":"<p>New license rule. The only rule that
you can add after you create a license configuration is licenseAffinityToHost.</p>"
},
"LicenseCount":{
 "shape":"BoxLong",
 "documentation":"<p>New number of licenses managed by the license configuration.</p>"
},
"LicenseCountHardLimit":{
 "shape":"BoxBoolean",
 "documentation":"<p>New hard limit of the number of available licenses.</p>"
},
"Name":{
 "shape":"String",
 "documentation":"<p>New name of the license configuration.</p>"
},
"Description":{
 "shape":"String",
 "documentation":"<p>New description of the license configuration.</p>"
},
"ProductInformationList":{
 "shape":"ProductInformationList",
 "documentation":"<p>New product information.</p>"
},
"DisassociateWhenNotFound":{
 "shape":"BoxBoolean",
 "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
}
}
},
"UpdateLicenseConfigurationResponse":{
 "type":"structure",
 "members":{
 }
},
"UpdateLicenseManagerReportGeneratorRequest":{
 "type":"structure",
 "required":[
 "LicenseManagerReportGeneratorArn",
 "ReportGeneratorName",
 "Type",
 "ReportContext",
 "ReportFrequency",
 "ClientToken"
],
 "members":{
 "LicenseManagerReportGeneratorArn":{

```

```

 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
 },
 "ReportGeneratorName":{
 "shape":"ReportGeneratorName",
 "documentation":"<p>Name of the report generator.</p>"
 },
 "Type":{
 "shape":"ReportTypeList",
 "documentation":"<p>Type of reports to generate. The following report types are supported:</p>
<p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> "
 },
 "ReportContext":{
 "shape":"ReportContext",
 "documentation":"<p>The report context.</p>"
 },
 "ReportFrequency":{
 "shape":"ReportFrequency",
 "documentation":"<p>Frequency by which reports are generated.</p>"
 },
 "ClientToken":{
 "shape":"ClientRequestToken",
 "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
 },
 "Description":{
 "shape":"String",
 "documentation":"<p>Description of the report generator.</p>"
 }
},
"UpdateLicenseManagerReportGeneratorResponse":{
 "type":"structure",
 "members":{
 }
},
"UpdateLicenseSpecificationsForResourceRequest":{
 "type":"structure",
 "required":["ResourceArn"],
 "members":{
 "ResourceArn":{
 "shape":"String",
 "documentation":"<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>"
 },
 },
 "AddLicenseSpecifications":{
 "shape":"LicenseSpecifications",

```

```

 "documentation": "<p>ARNs of the license configurations to add.</p>"
 },
 "RemoveLicenseSpecifications": {
 "shape": "LicenseSpecifications",
 "documentation": "<p>ARNs of the license configurations to remove.</p>"
 }
},
"UpdateLicenseSpecificationsForResourceResponse": {
 "type": "structure",
 "members": {
 }
},
"UpdateServiceSettingsRequest": {
 "type": "structure",
 "members": {
 "S3BucketArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.</p>"
 },
 "SnsTopicArn": {
 "shape": "String",
 "documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
 },
 "OrganizationConfiguration": {
 "shape": "OrganizationConfiguration",
 "documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
 },
 "EnableCrossAccountsDiscovery": {
 "shape": "BoxBoolean",
 "documentation": "<p>Activates cross-account discovery.</p>"
 }
 }
},
"UpdateServiceSettingsResponse": {
 "type": "structure",
 "members": {
 }
},
"UsageOperation": {
 "type": "string",
 "max": 50
},
"ValidationException": {
 "type": "structure",
 "members": {

```



```
"Message":{"shape":"Message"}
},
"documentation":"<p>The provided input is not valid. Try your request again.</p>",
"exception":true
}
},
"documentation":"<p>License Manager makes it easier to manage licenses
from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>"
}
```

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## 1.423 tomcat-coyote 7.0.27

### 1.423.1 Available under license :

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\*/

/\*

\* Parsing HTTP headers as per RFC2616 is not always as simple as it first

```

* appears. For headers that only use tokens the
simple approach will normally
* be sufficient. However, for the other headers, while simple code meets 99.9%
* of cases, there are often some edge cases that make things far more
* complicated.
*
* The purpose of this parser is to let the parser worry about the edge cases.
* It provides strict parsing of HTTP header values assuming that wrapped header
* lines have already been unwrapped. (The Tomcat header processing code does
* the unwrapping.)
*
* Provides parsing of the following HTTP header values as per RFC 2616:
* - Content-Type
*
* Support for additional headers will be provided as required.
*/

```

```

/* Option Declaration */

```

```

options
{
 STATIC=false;
 NODE_PREFIX="Ast";
 MULTI=true;
 NODE_DEFAULT_VOID=true;
 JAVA_UNICODE_ESCAPE=false;
 UNICODE_INPUT=true;
 BUILD_NODE_FILES=true;
}

```

```

/* Parser Declaration */

```

```

PARSER_BEGIN(HttpParser)
package org.apache.tomcat.util.http.parser;
public class HttpParser
{
}
PARSER_END(HttpParser)

```

```

/*

```

```

* Content-Type

```

```

*/

```

```

AstMediaType MediaType() #MediaType : { }
{
 Type() <FORWARD_SLASH> SubType() (<SEMI_COLON> Parameter()* <EOF> {
 return jjtThis;
 }
}
}

```

```

void Type() #Type : { Token t = null; }
{
 t=<HTTP_TOKEN> { jjtThis.jjtSetValue(t.image.trim()); }
}

void SubType() #SubType :{ Token t = null; }
{
 t=<HTTP_TOKEN> { jjtThis.jjtSetValue(t.image.trim()); }
}

void Parameter() #Parameter : { }
{
 Attribute() <EQUALS> Value()
}

void Attribute() # Attribute : { Token t = null; }
{
 t=<HTTP_TOKEN> { jjtThis.jjtSetValue(t.image.trim()); }
}

void Value() #Value : { Token t = null; }
{
 t=<HTTP_TOKEN> { jjtThis.jjtSetValue(t.image.trim()); } | t=<QUOTED_STRING> {
jjtThis.jjtSetValue(t.image.trim()); }
}

```

```

<DEFAULT> TOKEN:
{
 < SEMI_COLON : ";" >
| < EQUALS : "=" >
| < FORWARD_SLASH : "/" >
| < SP : " " >
| < HT : "\t" >
| < LWS : (<HT> | <SP>)+ >
| < HTTP_TOKEN : (<LWS>)? (<HTTP_TOKEN_CHAR>)+ (<LWS>)? >
| < QUOTED_STRING : (<LWS>)?
<START_QUOTE> <QUOTED_TEXT> <END_QUOTE> (<LWS>)? >
| < START_QUOTE : "\"" > : IN_QUOTED_TEXT
| < #HTTP_TOKEN_CHAR:
[
 "\u0021",
 "\u0023"-"\u0027",
 "\u002a"-"\u002b",
 "\u002d"-"\u002e",
 "\u0030"-"\u0039",
 "\u0041"-"\u005a",

```

```
"\u005e"-"\u007a",
"\u007c",
"\u007e"
]
>
}
```

<IN\_QUOTED\_TEXT> TOKEN :

```
{
<#QUOTED_TEXT : (<QUOTED_TEXT_CHAR> | ("\" <CHAR>))* >
|<#END_QUOTE : "\"" >
|<#QUOTED_TEXT_CHAR:
[
"\u0009",
"\u0020"-"\u0021",
"\u0023"-"\u005b",
"\u005d"-"\u00ff"
]
>
|<#CHAR:
[
"\u0000"-"\u007f"
]
>
}
```

Found in path(s):

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/parser/HttpParser.jjt

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*/
```

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\*

/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationEntry.java

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\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantNameAndType.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/RuntimeVisibleParameterAnnotations.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Utility.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/EnumElementValue.java

\*

/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantString.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/PMGClass.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Field.java

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\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantLong.java

\*

/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AccessFlags.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Deprecated.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/LineNumber.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/JavaClass.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/LineNumberTable.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/LocalVariable.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-

```
jar/org/apache/tomcat/util/bcel/classfile/ParameterAnnotations.java
*
/opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/ConstantClass.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/ElementValue.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/LocalVariableTable.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/Annotations.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/SimpleElementValue.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/Constant.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/Unknown.java
*
/opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/Code.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/AnnotationElementValue.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/ConstantInteger.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/Signature.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/StackMapEntry.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/StackMapTable.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/ParameterAnnotationEntry.java
*
/opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/util/ByteSequence.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/Constants.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/ClassElementValue.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/RuntimeInvisibleParameterAnnotations.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/Synthetic.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/InnerClass.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/bcel/classfile/InnerClasses.java
*
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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ArrayElementValue.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/SourceFile.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassParser.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValuePair.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/FieldOrMethod.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Method.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/util/BCELComparator.java  
\*  
/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/StackMapTableEntry.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AttributeReader.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantDouble.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/StackMap.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantInterfaceMethodref.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationDefault.java  
\*  
/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassFormatException.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/CodeException.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/StackMapType.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ExceptionTable.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantFloat.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/RuntimeVisibleAnnotations.java  
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\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/mbeans-descriptors.dtd

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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/bcel/classfile/LocalVariableTypeTable.java

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\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/SetRootRule.java

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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileDeleteStrategy.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsDigesterSource.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/RuleSetBase.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsIntrospectionSource.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/ParameterInfo.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/NotificationInfo.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/RulesBase.java

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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/DeferredFileOutputStream.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/ArrayStack.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/XercesParser.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/WithDefaultsRulesWrapper.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/ByteArrayOutputStream.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/Digester.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/Rules.java

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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/CallParamRule.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/ObjectParamRule.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-

jar/org/apache/tomcat/util/digester/ObjectCreationFactory.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/digester/SetPropertiesRule.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/http/fileupload/IOUtils.java  
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jar/org/apache/tomcat/util/digester/ParserFeatureSetterFactory.java  
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jar/org/apache/tomcat/util/http/fileupload/FileCleaningTracker.java  
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jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsDOMSource.java  
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jar/org/apache/tomcat/util/digester/SetNextRule.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/http/fileupload/ThresholdingOutputStream.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/ManagedBean.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/digester/SetTopRule.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/digester/PathCallParamRule.java  
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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/digester/FactoryCreateRule.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/BaseAttributeFilter.java  
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jar/org/apache/tomcat/util/digester/AbstractObjectCreationFactory.java  
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jar/org/apache/tomcat/util/digester/CallMethodRule.java  
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jar/org/apache/tomcat/util/digester/GenericParser.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/FeatureInfo.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/Registry.java  
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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/AttributeInfo.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/ConstructorInfo.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/modeler/OperationInfo.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/digester/NodeCreateRule.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/RuleSet.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/RegistryMBean.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/BaseModelMBean.java  
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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/Rule.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUtils.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/BaseNotificationBroadcaster.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/FixedNotificationFilter.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/digester/SetPropertyRule.java

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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/modeler/modules/MbeansSource.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItem.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemFactory.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItem.java

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* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/http/fileupload/FileItemHeadersSupport.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
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* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
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jar/org/apache/tomcat/util/http/fileupload/ParameterParser.java
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jar/org/apache/coyote/http11/upgrade/UpgradeInbound.java
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/opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
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* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/coyote/http11/upgrade/UpgradeOutbound.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/threads/Constants.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/http/fileupload/InvalidFileNameException.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/http/fileupload/util/Closeable.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
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/opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/net/AbstractEndpoint.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/buf/Constants.java
* /opt/cola/permits/1509623545_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-
jar/org/apache/tomcat/util/threads/ResizableExecutor.java
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Found in path(s):

- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/res/LocalStrings.properties
- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/http/mapper/LocalStrings.properties
- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/net/jsse/res/LocalStrings.properties
- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/net/res/LocalStrings.properties
- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/coyote/ajp/LocalStrings.properties

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- /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/buf/LocalStrings.properties
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- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/threads/res/LocalStrings.properties
- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/coyote/http11/upgrade/LocalStrings.properties

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Found in path(s):

- \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/coyote/AbstractProcessor.java

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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSESupport.java  
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\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/tomcat/util/net/AprEndpoint.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/coyote/RequestInfo.java  
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\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/coyote/AbstractProtocol.java  
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/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-jar/org/apache/coyote/http11/Http11Protocol.java  
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jar/org/apache/tomcat/jni/SSL.java

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jar/org/apache/coyote/Request.java  
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\*  
/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/bcel/classfile/ConstantValue.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/Processor.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/http/MimeHeaders.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/upgrade/UpgradeBioProcessor.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/filters/ChunkedOutputFilter.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/buf/Ascii.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/http/ContentType.java  
\*  
/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/AbstractInputBuffer.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/upgrade/UpgradeNioProcessor.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/ajp/AjpProtocol.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/ActionHook.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/jni/Socketaddr.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/filters/BufferedInputFilter.java

\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/net/SSLImplementation.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/net/SSLUtil.java  
 \*  
 /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/coyote/ajp/AjpMessage.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/coyote/Adapter.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/http/parser/AstMediaType.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/jni/BIOCallback.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/coyote/http11/AbstractOutputBuffer.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/log/CaptureLog.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/net/DefaultServerSocketFactory.java  
 \*  
 /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/buf/CharChunk.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/buf/ByteChunk.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/jni/Multicast.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/coyote/http11/filters/FlushableGZIPOutputStream.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/jni/Library.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/coyote/ajp/AjpAprProcessor.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/http/parser/AstSubType.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/net/SSLSessionManager.java  
 \*  
 /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/jni/Procattr.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/net/jsse/JSSEKeyManager.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/jni/Registry.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/tomcat/util/http/parser/SimpleNode.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
 jar/org/apache/coyote/ajp/Constants.java  
 \* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-

jar/org/apache/coyote/ajp/AbstractAjpProtocol.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/upgrade/UpgradeAprProcessor.java  
\*  
/opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/Http11NioProtocol.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/http11/filters/VoidOutputFilter.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/buf/B2CConverter.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/util/net/jsse/JSSEImplementation.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/coyote/AsyncContextCallback.java  
\* /opt/cola/permits/1509623545\_1671097196.0364814/0/tomcat-coyote-7-0-27-sources-1-  
jar/org/apache/tomcat/jni/FileInfo.java

## 1.424 cxf-rt-bindings-soap 3.5.5

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jar/org/objectweb/asm/signature/SignatureWriter.java
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jar/org/objectweb/asm/CurrentFrame.java
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jar/org/objectweb/asm/RecordComponentWriter.java
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jar/org/objectweb/asm/ClassVisitor.java
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jar/org/objectweb/asm/SymbolTable.java
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jar/org/objectweb/asm/ModuleVisitor.java
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jar/org/objectweb/asm/FieldVisitor.java
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## 1.435 x-time-rate 0.3.0

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## 1.436 cxf-rt-features-logging 3.5.5

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## 1.438 aws-smithy-go 1.13.5

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# 1.440 x-crypto 0.2.0

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## 1.441 python-setuptools 65.6.3

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# 1.448 containerd-stargz-snapshotter-estargz 0.13.0

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## **1.449 package-url-packageurl-go 0.1.1- 0.20220428063043-89078438f170**

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## **1.450 spdx-tools-golang 0.3.1- 0.20230104082527-d6f58551be3f**

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package parser2v1

```
import (
 "fmt"
```

```
 "github.com/spdx/tools-golang/spdx/v2_1"
)
```

```
func (parser *tvParser2_1) parsePairFromOtherLicense2_1(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
 parser.otherLic = &v2_1.OtherLicense{ }
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
```

```

parser.otherLic.LicenseIdentifier = value
case "ExtractedText":
 parser.otherLic.ExtractedText = value
case "LicenseName":
 parser.otherLic.LicenseName = value
case "LicenseCrossReference":
 parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
case "LicenseComment":
 parser.otherLic.LicenseComment = value
// for relationship tags, pass along but don't change state
case "Relationship":
 parser.rln = &v2_1.Relationship{ }
 parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
 return parser.parsePairForRelationship2_1(tag,
value)
case "RelationshipComment":
 return parser.parsePairForRelationship2_1(tag, value)
// for annotation tags, pass along but don't change state
case "Annotator":
 parser.ann = &v2_1.Annotation{ }
 parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
 return parser.parsePairForAnnotation2_1(tag, value)
case "AnnotationDate":
 return parser.parsePairForAnnotation2_1(tag, value)
case "AnnotationType":
 return parser.parsePairForAnnotation2_1(tag, value)
case "SPDXREF":
 return parser.parsePairForAnnotation2_1(tag, value)
case "AnnotationComment":
 return parser.parsePairForAnnotation2_1(tag, value)
// tag for going on to review section (DEPRECATED)
case "Reviewer":
 parser.st = psReview2_1
 return parser.parsePairFromReview2_1(tag, value)
default:
 return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
}

return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package saver2v1

import (
 "bytes"
 "testing"

```

```

"github.com/spdx/tools-golang/spdx/v2_1"
)

// ===== Other License section Saver tests =====
func TestSaver2_1OtherLicenseSavesText(t *testing.T) {
 ol := &v2_1.OtherLicense{
 LicenseIdentifier: "LicenseRef-1",
 ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
 LicenseName: "License 1",
 LicenseCrossReferences: []string{
 "http://example.com/License1/",
 "http://example.com/License1AnotherURL/"},
 LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment
`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense2_1(ol, &got)
 if err != nil {
 t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
 t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}

func TestSaver2_1OtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &v2_1.OtherLicense{
 LicenseIdentifier: "LicenseRef-1",

```

```

 ExtractedText: `License 1 text
 blah blah blah
 blah blah blah blah`,
 LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
 ExtractedText: <text>License 1 text
 blah blah blah
 blah blah blah blah</text>
 LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense2_1(ol, &got)
 if err != nil {
 t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
 t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}

// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v2

import (
 "errors"
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
)

// AnyLicense is a baseClass for all the licenses
// All the types of licenses is a sub-type of AnyLicense,
// either directly or indirectly.
// This function acts as a mux for all the licenses. Based on the input, it
// decides which type of license it is and passes control to that type of
// license parser to parse the given input.

```

```

func (parser *rdfParser2_2) getAnyLicenseFromNode(node *gordfParser.Node) (AnyLicenseInfo, error) {

currState := parser.cache[node.ID]
if currState == nil {
// there is no entry about the state of current package node.
// this is the first time we're seeing this node.
parser.cache[node.ID] = &nodeState{
object: nil, // not storing the object as we won't retrieve it later.
Color: WHITE,
}
} else if currState.Color == GREY {
// we have
already started parsing this license node.
// We have a cyclic dependency!
return nil, errors.New("Couldn't parse license: found a cyclic dependency on " + node.ID)
}

// setting color of the state to grey to indicate that we've started to
// parse this node once.
parser.cache[node.ID].Color = GREY

// setting state color to black when we're done parsing this node.
defer func() { parser.cache[node.ID].Color = BLACK }()

associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
if len(associatedTriples) == 0 {
// just a license uri string was found.
return parser.getSpecialLicenseFromNode(node)
}

// we have some attributes associated with the license node.
nodeType, err := getNodeFromTriples(associatedTriples, node)
if err != nil {
return nil, fmt.Errorf("error parsing license triple: %v", err)
}
switch nodeType {
case SPDX_DISJUNCTIVE_LICENSE_SET:
return parser.getDisjunctiveLicenseSetFromNode(node)
case SPDX_CONJUNCTIVE_LICENSE_SET:
return
parser.getConjunctiveLicenseSetFromNode(node)
case SPDX_EXTRACTED_LICENSING_INFO:
return parser.getExtractedLicensingInfoFromNode(node)
case SPDX_LISTED_LICENSE, SPDX_LICENSE:
return parser.getLicenseFromNode(node)
case SPDX_WITH_EXCEPTION_OPERATOR:
return parser.getWithExceptionOperatorFromNode(node)
case SPDX_OR_LATER_OPERATOR:

```

```

return parser.getOrLaterOperatorFromNode(node)
case SPDX_SIMPLE_LICENSING_INFO:
return parser.getSimpleLicensingInfoFromNode(node)
}
return nil, fmt.Errorf("Unknown subTag (%s) found while parsing AnyLicense", nodeType)
}

func (parser *rdfParser2_2) getLicenseExceptionFromNode(node *gordfParser.Node) (exception LicenseException,
err error) {
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
for _, triple := range associatedTriples {
value := triple.Object.ID
switch triple.Predicate.ID {
case RDF_TYPE:
continue
case SPDX_LICENSE_EXCEPTION_ID:
exception.licenseExceptionId
= value
case SPDX_LICENSE_EXCEPTION_TEXT:
exception.licenseExceptionText = value
case RDFS_SEE_ALSO:
if !isUriValid(value) {
return exception, fmt.Errorf("invalid uri (%s) for seeAlso attribute of LicenseException", value)
}
exception.seeAlso = value
case SPDX_NAME:
exception.name = value
case SPDX_EXAMPLE:
exception.example = value
case RDFS_COMMENT:
exception.comment = value
default:
return exception, fmt.Errorf("invalid predicate(%s) for LicenseException", triple.Predicate)
}
}
return exception, nil
}

func (parser *rdfParser2_2) getSimpleLicensingInfoFromNode(node *gordfParser.Node) (SimpleLicensingInfo,
error) {
simpleLicensingTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
return parser.getSimpleLicensingInfoFromTriples(simpleLicensingTriples)
}

func (parser *rdfParser2_2) getWithExceptionOperatorFromNode(node *gordfParser.Node) (operator
WithExceptionOperator, err error) {
associatedTriples

```

```

:= rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
var memberFound bool
for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_MEMBER:
 if memberFound {
 return operator,
 fmt.Errorf("more than one member found in the WithExceptionOperator (expected only 1)")
 }
 memberFound = true
 member, err := parser.getSimpleLicensingInfoFromNode(triple.Object)
 if err != nil {
 return operator, fmt.Errorf("error parsing member of a WithExceptionOperator: %v", err)
 }
 operator.member = member
 case SPDX_LICENSE_EXCEPTION:
 operator.licenseException, err = parser.getLicenseExceptionFromNode(triple.Object)
 if err != nil {
 return operator, fmt.Errorf("error parsing licenseException of WithExceptionOperator: %v", err)
 }
 default:
 return operator, fmt.Errorf("unknown predicate (%s) for a WithExceptionOperator", triple.Predicate.ID)
 }
}
return operator,
nil
}

func (parser *rdfParser2_2) getOrLaterOperatorFromNode(node *gordfParser.Node) (operator OrLaterOperator, err
error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 n := len(associatedTriples)
 if n != 2 {
 return operator, fmt.Errorf("orLaterOperator must be associated with exactly one tag. found %v triples", n-1)
 }
 for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_MEMBER:
 operator.member, err = parser.getSimpleLicensingInfoFromNode(triple.Object)
 if err != nil {
 return operator, fmt.Errorf("error parsing simpleLicensingInfo of OrLaterOperator: %v", err)
 }
 }
 }
 default:
 return operator, fmt.Errorf("unknown predicate %s", triple.Predicate.ID)
 }
}

```



```

 }
 }
 return operator, nil
}

// SpecialLicense is a type of license which is not defined in any of the
// spdx documents, it is a type of license defined for the sake of brevity.
// It can be [NONE|NOASSERTION|LicenseRef-<string>]
func
(parser *rdfParser2_2) getSpecialLicenseFromNode(node *gordfParser.Node) (lic SpecialLicense, err error) {
 uri := strings.TrimSpace(node.ID)
 switch uri {
 case SPDX_NONE_CAPS, SPDX_NONE_SMALL:
 return SpecialLicense{
 value: NONE,
 }, nil
 case SPDX_NOASSERTION_SMALL, SPDX_NOASSERTION_CAPS:
 return SpecialLicense{
 value: NOASSERTION,
 }, nil
 }

 // the license is neither NONE nor NOASSERTION
 // checking if the license is among the standardLicenses
 licenseAbbreviation := getLastPartOfURI(uri)
 for _, stdLicense := range AllStandardLicenseIDS() {
 if licenseAbbreviation == stdLicense {
 return SpecialLicense{
 value: SpecialLicenseValue(stdLicense),
 }, nil
 }
 }
 return lic, fmt.Errorf("found a custom license uri (%s) without any associated fields", uri)
}

func (parser *rdfParser2_2) getDisjunctiveLicenseSetFromNode(node *gordfParser.Node) (DisjunctiveLicenseSet,
error) {
 licenseSet := DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{},
 }
 for
 _, triple := range parser.nodeToTriples(node) {
 switch triple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_MEMBER:
 member, err := parser.getAnyLicenseFromNode(triple.Object)
 if err != nil {

```

```

 return licenseSet, fmt.Errorf("error parsing disjunctive license set: %v", err)
}
licenseSet.members = append(licenseSet.members, member)
}
}
return licenseSet, nil
}

func (parser *rdfParser2_2) getConjunctiveLicenseSetFromNode(node *gordfParser.Node) (ConjunctiveLicenseSet,
error) {
licenseSet := ConjunctiveLicenseSet{
members: []AnyLicenseInfo{},
}
for _, triple := range parser.nodeToTriples(node) {
switch triple.Predicate.ID {
case RDF_TYPE:
continue
case SPDX_MEMBER:
member, err := parser.getAnyLicenseFromNode(triple.Object)
if err != nil {
return licenseSet, fmt.Errorf("error parsing conjunctive license set: %v", err)
}
licenseSet.members = append(licenseSet.members, member)
default:
return licenseSet, fmt.Errorf("unknown
subTag for ConjunctiveLicenseSet: %s", triple.Predicate.ID)
}
}
return licenseSet, nil
}

func (parser *rdfParser2_2) getSimpleLicensingInfoFromTriples(triples []*gordfParser.Triple) (lic
SimpleLicensingInfo, err error) {
for _, triple := range triples {
switch triple.Predicate.ID {
case RDFS_COMMENT:
lic.comment = triple.Object.ID
case SPDX_LICENSE_ID:
lic.licenseID = triple.Object.ID
case SPDX_NAME:
lic.name = triple.Object.ID
case RDFS_SEE_ALSO:
if !isUriValid(triple.Object.ID) {
return lic, fmt.Errorf("%s is not a valid uri for seeAlso attribute of a License", triple.Object.ID)
}
lic.seeAlso = append(lic.seeAlso, triple.Object.ID)
case SPDX_EXAMPLE:
lic.example = triple.Object.ID

```

```

case RDF_TYPE:
 continue
default:
 return lic, fmt.Errorf("unknown predicate(%s) for simple licensing info", triple.Predicate)
}
}
return lic, nil
}

func (parser *rdfParser2_2) getLicenseFromNode(node *gordfParser.Node) (lic License, err error)
{
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
 value := triple.Object.ID
 switch triple.Predicate.ID {
 case SPDX_IS_OSI_APPROVED:
 lic.isOsiApproved, err = boolFromString(value)
 if err != nil {
 return lic, fmt.Errorf("error parsing isOsiApproved attribute of a License: %v", err)
 }
 case SPDX_LICENSE_TEXT:
 lic.licenseText = value
 case SPDX_STANDARD_LICENSE_HEADER:
 lic.standardLicenseHeader = value
 case SPDX_STANDARD_LICENSE_TEMPLATE:
 lic.standardLicenseTemplate = value
 case SPDX_STANDARD_LICENSE_HEADER_TEMPLATE:
 lic.standardLicenseHeaderTemplate = value
 case SPDX_IS_DEPRECATED_LICENSE_ID:
 lic.isDeprecatedLicenseID, err = boolFromString(value)
 if err != nil {
 return lic, fmt.Errorf("error parsing isDeprecatedLicenseId attribute of a License: %v", err)
 }
 case SPDX_IS_FSF_LIBRE:
 lic.isFsfLibre, err
 = boolFromString(value)
 if err != nil {
 return lic, fmt.Errorf("error parsing isFsfLibre attribute of a License: %v", err)
 }
 default:
 restTriples = append(restTriples, triple)
 }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
 return lic, fmt.Errorf("error setting simple licensing information of a License: %s", err)
 }
}

```

```

return lic, nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v2

import (
 "fmt"

 "github.com/spdx/tools-golang/spdx/v2_2"
)

func (parser *tvParser2_2) parsePairFromOtherLicense2_2(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
 parser.otherLic = &v2_2.OtherLicense{ }
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
 parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
 parser.otherLic.ExtractedText = value
 case "LicenseName":
 parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
 parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
 parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
 parser.rln = &v2_2.Relationship{ }
 parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
 return parser.parsePairForRelationship2_2(tag,
 value)
 case "RelationshipComment":
 return parser.parsePairForRelationship2_2(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
 parser.ann = &v2_2.Annotation{ }
 parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
 return parser.parsePairForAnnotation2_2(tag, value)
 case "AnnotationDate":
 return parser.parsePairForAnnotation2_2(tag, value)
 case "AnnotationType":
 return parser.parsePairForAnnotation2_2(tag, value)
 case "SPDXREF":
 return parser.parsePairForAnnotation2_2(tag, value)
 case "AnnotationComment":
 return parser.parsePairForAnnotation2_2(tag, value)
 }
}

```

```

// tag for going on to review section (DEPRECATED)
case "Reviewer":
 parser.st = psReview2_2
 return parser.parsePairFromReview2_2(tag, value)
default:
 return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
}

return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v2

import (
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/tools-golang/spdx/common"
)

/* util methods for licenses and checksums below:*/

// Given the license URI, returns the name of the license defined
// in the last part of the uri.
// This function is susceptible to false-positives.
func getLicenseStringFromURI(uri string) string {
 licenseEnd := strings.TrimSpace(getLastPartOfURI(uri))
 lower := strings.ToLower(licenseEnd)
 if lower == "none" || lower == "noassertion" {
 return strings.ToUpper(licenseEnd)
 }
 return licenseEnd
}

// returns the checksum algorithm and it's value
// In the newer versions, these two strings will be bound to a single checksum struct
// whose pointer will be returned.
func (parser *rdfParser2_2) getChecksumFromNode(checksumNode *gordfParser.Node) (algorithm
common.ChecksumAlgorithm, value string, err error) {
 var checksumValue, checksumAlgorithm
 string
 for _, checksumTriple := range parser.nodeToTriples(checksumNode) {
 switch checksumTriple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_CHECKSUM_VALUE:

```

```

// cardinality: exactly 1
checksumValue = strings.TrimSpace(checksumTriple.Object.ID)
case SPDX_ALGORITHM:
// cardinality: exactly 1
checksumAlgorithm, err = getAlgorithmFromURI(checksumTriple.Object.ID)
if err != nil {
return
}
default:
err = fmt.Errorf("unknown predicate '%s' while parsing checksum node", checksumTriple.Predicate.ID)
return
}
}
return common.ChecksumAlgorithm(checksumAlgorithm), checksumValue, nil
}

func getAlgorithmFromURI(algorithmURI string) (checksumAlgorithm string, err error) {
fragment := getLastPartOfURI(algorithmURI)
if !strings.HasPrefix(fragment, "checksumAlgorithm_") {
return "", fmt.Errorf("checksum algorithm uri must begin with checksumAlgorithm_. found %s", fragment)
}
algorithm := strings.TrimPrefix(fragment, "checksumAlgorithm_")
algorithm
= strings.ToLower(strings.TrimSpace(algorithm))
switch algorithm {
case "md2", "md4", "md5", "md6":
checksumAlgorithm = strings.ToUpper(algorithm)
case "sha1", "sha224", "sha256", "sha384", "sha512":
checksumAlgorithm = strings.ToUpper(algorithm)
default:
return "", fmt.Errorf("unknown checksum algorithm %s", algorithm)
}
return
}

// from a list of licenses, it returns a
// list of string representation of those licenses.
func mapLicensesToStrings(licences []AnyLicenseInfo) []string {
res := make([]string, len(licences), len(licences))
for i, lic := range licences {
res[i] = lic.ToLicenseString()
}
return res
}

/***** Type Functions *****/

// TODO: should probably add brackets while linearizing a nested license.

```

```

func (lic ConjunctiveLicenseSet) ToLicenseString() string {
 return strings.Join(mapLicensesToStrings(lic.members), " AND ")
}

// TODO: should probably add brackets while linearizing a nested license.
func (lic DisjunctiveLicenseSet) ToLicenseString()
 string {
 return strings.Join(mapLicensesToStrings(lic.members), " OR ")
}

func (lic ExtractedLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}

func (operator OrLaterOperator) ToLicenseString() string {
 return operator.member.ToLicenseString()
}

func (lic License) ToLicenseString() string {
 return lic.licenseID
}

func (lic ListedLicense) ToLicenseString() string {
 return lic.licenseID
}

func (lic WithExceptionOperator) ToLicenseString() string {
 return lic.member.ToLicenseString()
}

func (lic SpecialLicense) ToLicenseString() string {
 return string(lic.value)
}

func (lic SimpleLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

import (
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/tools-golang/spdx/common"
)

```

```

/* util methods for licenses and checksums below:*/

// Given the license URI, returns the name of the license defined
// in the last part of the uri.
// This function is susceptible to false-positives.
func getLicenseStringFromURI(uri string) string {
 licenseEnd := strings.TrimSpace(getLastPartOfURI(uri))
 lower := strings.ToLower(licenseEnd)
 if lower == "none" || lower == "noassertion" {
 return strings.ToUpper(licenseEnd)
 }
 return licenseEnd
}

// returns the checksum algorithm and it's value
// In the newer versions, these two strings will be bound to a single checksum struct
// whose pointer will be returned.
func (parser *rdfParser2_3) getChecksumFromNode(checksumNode *gordfParser.Node) (algorithm
common.ChecksumAlgorithm, value string, err error) {
 var checksumValue, checksumAlgorithm
 string
 for _, checksumTriple := range parser.nodeToTriples(checksumNode) {
 switch checksumTriple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_CHECKSUM_VALUE:
 // cardinality: exactly 1
 checksumValue = strings.TrimSpace(checksumTriple.Object.ID)
 case SPDX_ALGORITHM:
 // cardinality: exactly 1
 checksumAlgorithm, err = getAlgorithmFromURI(checksumTriple.Object.ID)
 if err != nil {
 return
 }
 default:
 err = fmt.Errorf("unknown predicate '%s' while parsing checksum node", checksumTriple.Predicate.ID)
 return
 }
 }
 return common.ChecksumAlgorithm(checksumAlgorithm), checksumValue, nil
}

func getAlgorithmFromURI(algorithmURI string) (checksumAlgorithm string, err error) {
 fragment := getLastPartOfURI(algorithmURI)
 if !strings.HasPrefix(fragment, "checksumAlgorithm_") {
 return "", fmt.Errorf("checksum algorithm uri must begin with checksumAlgorithm_. found %s", fragment)
 }
}

```



```

algorithm := strings.TrimPrefix(fragment, "checksumAlgorithm_")
algorithm
= strings.ToLower(strings.TrimSpace(algorithm))
switch algorithm {
case "md2", "md4", "md5", "md6":
checksumAlgorithm = strings.ToUpper(algorithm)
case "sha1", "sha224", "sha256", "sha384", "sha512":
checksumAlgorithm = strings.ToUpper(algorithm)
default:
return "", fmt.Errorf("unknown checksum algorithm %s", algorithm)
}
return
}

```

```

// from a list of licenses, it returns a
// list of string representation of those licenses.
func mapLicensesToStrings(licences []AnyLicenseInfo) []string {
res := make([]string, len(licences), len(licences))
for i, lic := range licences {
res[i] = lic.ToLicenseString()
}
return res
}

```

/\*\*\*\*\*\* Type Functions \*\*\*\*\*/

```

// TODO: should probably add brackets while linearizing a nested license.
func (lic ConjunctiveLicenseSet) ToLicenseString() string {
return strings.Join(mapLicensesToStrings(lic.members), " AND ")
}

```

```

// TODO: should probably add brackets while linearizing a nested license.
func (lic DisjunctiveLicenseSet) ToLicenseString()
string {
return strings.Join(mapLicensesToStrings(lic.members), " OR ")
}

```

```

func (lic ExtractedLicensingInfo) ToLicenseString() string {
return lic.licenseID
}

```

```

func (operator OrLaterOperator) ToLicenseString() string {
return operator.member.ToLicenseString()
}

```

```

func (lic License) ToLicenseString() string {
return lic.licenseID
}

```

```

func (lic ListedLicense) ToLicenseString() string {
 return lic.licenseID
}

func (lic WithExceptionOperator) ToLicenseString() string {
 return lic.member.ToLicenseString()
}

func (lic SpecialLicense) ToLicenseString() string {
 return string(lic.value)
}

func (lic SimpleLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package saver2v2

import (
 "bytes"
 "testing"

 "github.com/spdx/tools-golang/spdx/v2_2"
)

// ===== Other License section Saver tests =====
func TestSaver2_2OtherLicenseSavesText(t *testing.T) {
 ol := &v2_2.OtherLicense{
 LicenseIdentifier: "LicenseRef-1",
 ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
 LicenseName: "License 1",
 LicenseCrossReferences: []string{
 "http://example.com/License1/",
 "http://example.com/License1AnotherURL/"},
 LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

```

LicenseCrossReference: http://example.com/License1/  
LicenseCrossReference: http://example.com/License1AnotherURL/  
LicenseComment: this is a license comment

)

```
// render as buffer of bytes
var got bytes.Buffer
err
:= renderOtherLicense2_2(ol, &got)
if err != nil {
 t.Errorf("Expected nil error, got %v", err)
}

// check that they match
c := bytes.Compare(want.Bytes(), got.Bytes())
if c != 0 {
 t.Errorf("Expected %v, got %v", want.String(), got.String())
}
}
```

```
func TestSaver2_2OtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &v2_2.OtherLicense{
 LicenseIdentifier: "LicenseRef-1",
 ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
 LicenseName: "License 1",
 }
}
```

```
// what we want to get, as a buffer of bytes
want := bytes.NewBufferString(`
LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
```

)

```
// render as buffer of bytes
var got bytes.Buffer
err := renderOtherLicense2_2(ol, &got)
if err != nil {
 t.Errorf("Expected nil error, got %v", err)
}

// check that they match
c := bytes.Compare(want.Bytes(), got.Bytes())
```

```

if c != 0 {
 t.Errorf("Expected %v, got %v", want.String(),
got.String())
}
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package parser2v2

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2_2"
)

// ===== Parser other license section state change tests =====
func TestParser2_2OLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
 LicenseIdentifier: olid1,
 LicenseName: olname1,
 },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // the Document's OtherLicenses
 should have this one only
 if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
 }

 // now add a new other license
 olid2 := "LicenseRef-22"
 olname2 := "License 22"

```

```

err := parser.parsePair2_2("LicenseID", olid2)
if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
}
// state should be correct
if parser.st != psOtherLicense2_2 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_2, parser.st)
}
// and an other license should be created
if parser.otherLic == nil {
 t.Fatalf("parser didn't create new other license")
}
// also parse the new license's name
err = parser.parsePair2_2("LicenseName", olname2)
if err != nil {
 t.Errorf("got error when calling parsePair2_2:
%v", err)
}
// state should still be correct
if parser.st != psOtherLicense2_2 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_2, parser.st)
}
// and the other license name should be as expected
if parser.otherLic.LicenseName != olname2 {
 t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
}
// and the Document's Other Licenses should be of size 2 and have these two
if len(parser.doc.OtherLicenses) != 2 {
 t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
}
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
 t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name
%s in OtherLicenses[0], got %s", olname1, parser.doc.OtherLicenses[0].LicenseName)
}
if parser.doc.OtherLicenses[1] != parser.otherLic {
 t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
}
if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
 t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
}

```

```

if parser.doc.OtherLicenses[1].LicenseName != olname2 {
 t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
}
}

func TestParser2_2OLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages
= append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair2_2("Reviewer", "Person: John Doe")
 if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
 }
 if parser.st != psReview2_2 {
 t.Errorf("expected state to be %v, got %v", psReview2_2, parser.st)
 }
}

func TestParser2_2OtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
 LicenseIdentifier: "LicenseRef-whatever",
 LicenseName: "the whatever license",
 },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files,
parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair2_2("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
 if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
 }
 // state should remain unchanged

```

```

if parser.st != psOtherLicense2_2 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_2, parser.st)
}
// and the relationship should be in the Document's Relationships
if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
}
deID := parser.doc.Relationships[0].RefA
if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
}

err = parser.parsePair2_2("RelationshipComment", "blah")
if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
}
// state should still remain unchanged
if
parser.st != psOtherLicense2_2 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_2, parser.st)
}
}

func TestParser2_2OtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
 LicenseIdentifier: "LicenseRef-whatever",
 LicenseName: "the whatever license",
 },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair2_2("Annotator", "Person: John Doe ()")
 if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
 }
 if parser.st != psOtherLicense2_2 {
 t.Errorf("parser is in state
 %v, expected %v", parser.st, psOtherLicense2_2)
 }

 err = parser.parsePair2_2("AnnotationDate", "2018-09-15T00:36:00Z")

```

```

if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
}
if parser.st != psOtherLicense2_2 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_2)
}

err = parser.parsePair2_2("AnnotationType", "REVIEW")
if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
}
if parser.st != psOtherLicense2_2 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_2)
}

err = parser.parsePair2_2("SPDXREF", "SPDXRef-45")
if err != nil {
 t.Errorf("got error when calling parsePair2_2: %v", err)
}
if parser.st != psOtherLicense2_2 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_2)
}

err = parser.parsePair2_2("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair2_2:
 %v", err)
}
if parser.st != psOtherLicense2_2 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_2)
}

// and the annotation should be in the Document's Annotations
if len(parser.doc.Annotations) != 1 {
 t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
}
if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
 t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
}
}

func TestParser2_2OLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{

```



```

 LicenseIdentifier: "LicenseRef-Lic11",
 LicenseName: "License 11",
 },
}
parser.doc.Packages = append(parser.doc.Packages,
parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

// can't go back to old sections
err := parser.parsePair2_2("SPDXVersion", "SPDX-2.2")
if err == nil {
 t.Errorf("expected error when calling parsePair2_2, got nil")
}
err = parser.parsePair2_2("PackageName", "whatever")
if err == nil {
 t.Errorf("expected error when calling parsePair2_2, got nil")
}
err = parser.parsePair2_2("FileName", "whatever")
if err == nil {
 t.Errorf("expected error when calling parsePair2_2, got nil")
}
}

// ===== Other License data section tests =====
func TestParser2_2CanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages
 = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // License Identifier
 err := parser.parsePairFromOtherLicense2_2("LicenseID", "LicenseRef-Lic11")
 if err != nil {
 t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
 t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
 }

 // Extracted Text
 err = parser.parsePairFromOtherLicense2_2("ExtractedText", "You are permitted to do anything with the software,

```

```

hooray!")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense2_2("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected
nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for _, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense2_2("LicenseCrossReference", cr)
 if err != nil {
 t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
 if refWant == refCheck {
 flagFound = true
 }
 }
 if flagFound == false {
 t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}
if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
 len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense2_2("LicenseComment",

```

```

 "this is a comment")
 if err != nil {
 t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for LicenseComment", parser.otherLic.LicenseComment)
 }
}

func TestParser2_2OLUnknownTagFails(t *testing.T) {
 parser := tvParser2_2{
 doc: &v2_2.Document{Packages: []*v2_2.Package{}},
 st: psOtherLicense2_2,
 pkg: &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense2_2("blah", "something")
 if err == nil {
 t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v2

import (
 "reflect"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_2_getExtractedLicensingInfoFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var node *gordfParser.Node

 // TestCase 1: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(
 <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-
 spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseID>LicenseRef-Freeware</spdx:licenseID>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional

```

for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use,

copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>

```
</spdx:ExtractedLicensingInfo>
```

```
`)
```

```
node
```

```
= parser.gordfParserObj.Triples[0].Subject
```

```
_, err = parser.getExtractedLicensingInfoFromNode(node)
```

```
if err == nil {
```

```
 t.Errorf("expected an error saying invalid predicate, got <nil>")
```

```
}
```

```
// TestCase 2: valid input
```

```
parser, _ = parserFromBodyContent(`
```

```
<spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
```

```
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
```

```
 <spdx:name>freeware</spdx:name>
```

```
 <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
```

```
</spdx:ExtractedLicensingInfo>
```

```
`)
```

```
node = parser.gordfParserObj.Triples[0].Subject
```

```
_, err = parser.getExtractedLicensingInfoFromNode(node)
```

```
if err != nil {
```

```
 t.Errorf("unexpected
```

```
error: %v", err)
```

```
}
```

```
}
```

```

func Test_rdfParser2_2_extractedLicenseToOtherLicense(t *testing.T) {
 // nothing to test for this function.
 parser, _ := parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-
 spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional
 for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or
 as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the
 rights to use, copy, distribute, modify and make derivative works of the software or extract the source
 code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for
 personal use, private
 use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or
 humanitarian organizations, non-military use, use by public authorities or various other combinations of these type
 of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license
 may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted
 use in a combination with some types of other software or with some hardware devices, prohibited distribution over
 the Internet other than linking to author's website, restricted distribution without author's consent, restricted number
 of copies, etc.]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 extLicense, _ := parser.getExtractedLicensingInfoFromNode(node)
 othLic := parser.extractedLicenseToOtherLicense(extLicense)

 if othLic.LicenseIdentifier != extLicense.licenseID
 {
 t.Errorf("expected %v, got %v", othLic.LicenseIdentifier, extLicense.licenseID)
 }
 if othLic.ExtractedText != extLicense.extractedText {
 t.Errorf("expected %v, got %v", othLic.ExtractedText, extLicense.extractedText)
 }
 if othLic.LicenseComment != extLicense.comment {
 t.Errorf("expected %v, got %v", othLic.LicenseComment, extLicense.comment)
 }
 if !reflect.DeepEqual(othLic.LicenseCrossReferences, extLicense.seeAlso) {
 t.Errorf("expected %v, got %v", othLic.LicenseCrossReferences, extLicense.seeAlso)
 }
 if othLic.LicenseName != extLicense.name {
 t.Errorf("expected %v, got %v", othLic.LicenseName, extLicense.name)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

```

```

import (
 "errors"
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
)

// AnyLicense is a baseClass for all the licenses
// All the types of licenses is a sub-type of AnyLicense,
// either directly or indirectly.
// This function acts as a mux for all the licenses. Based on the input, it
// decides which type of license it is and passes control to that type of
// license parser to parse the given input.
func (parser *rdfParser2_3) getAnyLicenseFromNode(node *gordfParser.Node) (AnyLicenseInfo, error) {

 currState := parser.cache[node.ID]
 if currState == nil {
 // there is no entry about the state of current package node.
 // this is the first time we're seeing this node.
 parser.cache[node.ID] = &nodeState{
 object: nil, // not storing the object as we won't retrieve it later.
 Color: WHITE,
 }
 } else if currState.Color == GREY {
 // we have
 already started parsing this license node.
 // We have a cyclic dependency!
 return nil, errors.New("Couldn't parse license: found a cyclic dependency on " + node.ID)
 }

 // setting color of the state to grey to indicate that we've started to
 // parse this node once.
 parser.cache[node.ID].Color = GREY

 // setting state color to black when we're done parsing this node.
 defer func() { parser.cache[node.ID].Color = BLACK }()

 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 if len(associatedTriples) == 0 {
 // just a license uri string was found.
 return parser.getSpecialLicenseFromNode(node)
 }

 // we have some attributes associated with the license node.
 nodeType, err := getNodeFromTriples(associatedTriples, node)
 if err != nil {

```

```

return nil, fmt.Errorf("error parsing license triple: %v", err)
}
switch nodeType {
case SPDX_DISJUNCTIVE_LICENSE_SET:
return parser.getDisjunctiveLicenseSetFromNode(node)
case SPDX_CONJUNCTIVE_LICENSE_SET:
return
parser.getConjunctiveLicenseSetFromNode(node)
case SPDX_EXTRACTED_LICENSING_INFO:
return parser.getExtractedLicensingInfoFromNode(node)
case SPDX_LISTED_LICENSE, SPDX_LICENSE:
return parser.getLicenseFromNode(node)
case SPDX_WITH_EXCEPTION_OPERATOR:
return parser.getWithExceptionOperatorFromNode(node)
case SPDX_OR_LATER_OPERATOR:
return parser.getOrLaterOperatorFromNode(node)
case SPDX_SIMPLE_LICENSING_INFO:
return parser.getSimpleLicensingInfoFromNode(node)
}
return nil, fmt.Errorf("Unknown subTag (%s) found while parsing AnyLicense", nodeType)
}

func (parser *rdfParser2_3) getLicenseExceptionFromNode(node *gordfParser.Node) (exception LicenseException,
err error) {
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
for _, triple := range associatedTriples {
value := triple.Object.ID
switch triple.Predicate.ID {
case RDF_TYPE:
continue
case SPDX_LICENSE_EXCEPTION_ID:
exception.licenseExceptionId
= value
case SPDX_LICENSE_EXCEPTION_TEXT:
exception.licenseExceptionText = value
case RDFS_SEE_ALSO:
if !isUriValid(value) {
return exception, fmt.Errorf("invalid uri (%s) for seeAlso attribute of LicenseException", value)
}
exception.seeAlso = value
case SPDX_NAME:
exception.name = value
case SPDX_EXAMPLE:
exception.example = value
case RDFS_COMMENT:
exception.comment = value
default:
return exception, fmt.Errorf("invalid predicate(%s) for LicenseException", triple.Predicate)
}
}
}

```

```

 }
 }
 return exception, nil
}

func (parser *rdfParser2_3) getSimpleLicensingInfoFromNode(node *gordfParser.Node) (SimpleLicensingInfo,
error) {
 simpleLicensingTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 return parser.getSimpleLicensingInfoFromTriples(simpleLicensingTriples)
}

func (parser *rdfParser2_3) getWithExceptionOperatorFromNode(node *gordfParser.Node) (operator
WithExceptionOperator, err error) {
 associatedTriples
:= rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var memberFound bool
 for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_MEMBER:
 if memberFound {
 return operator,
 fmt.Errorf("more than one member found in the WithExceptionOperator (expected only 1)")
 }
 memberFound = true
 member, err := parser.getSimpleLicensingInfoFromNode(triple.Object)
 if err != nil {
 return operator, fmt.Errorf("error parsing member of a WithExceptionOperator: %v", err)
 }
 operator.member = member
 case SPDX_LICENSE_EXCEPTION:
 operator.licenseException, err = parser.getLicenseExceptionFromNode(triple.Object)
 if err != nil {
 return operator, fmt.Errorf("error parsing licenseException of WithExceptionOperator: %v", err)
 }
 default:
 return operator, fmt.Errorf("unknown predicate (%s) for a WithExceptionOperator", triple.Predicate.ID)
 }
 }
 return operator,
 nil
}

func (parser *rdfParser2_3) getOrLaterOperatorFromNode(node *gordfParser.Node) (operator OrLaterOperator, err
error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 n := len(associatedTriples)

```



```

if n != 2 {
 return operator, fmt.Errorf("orLaterOperator must be associated with exactly one tag. found %v triples", n-1)
}
for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case RDF_TYPE:
 continue
 case SPDX_MEMBER:
 operator.member, err = parser.getSimpleLicensingInfoFromNode(triple.Object)
 if err != nil {
 return operator, fmt.Errorf("error parsing simpleLicensingInfo of OrLaterOperator: %v", err)
 }
 default:
 return operator, fmt.Errorf("unknown predicate %s", triple.Predicate.ID)
 }
}
return operator, nil
}

```

// SpecialLicense is a type of license which is not defined in any of the  
// spdx documents, it is a type of license defined for the sake of brevity.

// It can be [NONE|NOASSERTION|LicenseRef-<string>]

func

```

(parser *rdfParser2_3) getSpecialLicenseFromNode(node *gordfParser.Node) (lic SpecialLicense, err error) {
 uri := strings.TrimSpace(node.ID)
 switch uri {
 case SPDX_NONE_CAPS, SPDX_NONE_SMALL:
 return SpecialLicense{
 value: NONE,
 }, nil
 case SPDX_NOASSERTION_SMALL, SPDX_NOASSERTION_CAPS:
 return SpecialLicense{
 value: NOASSERTION,
 }, nil
 }
}

```

// the license is neither NONE nor NOASSERTION

// checking if the license is among the standardLicenses

licenseAbbreviation := getLastPartOfURI(uri)

for \_, stdLicense := range AllStandardLicenseIDS() {

if licenseAbbreviation == stdLicense {

return SpecialLicense{

value: SpecialLicenseValue(stdLicense),

}, nil

}

}

return lic, fmt.Errorf("found a custom license uri (%s) without any associated fields", uri)

}

```

func (parser *rdfParser2_3) getDisjunctiveLicenseSetFromNode(node *gordfParser.Node) (DisjunctiveLicenseSet,
error) {
licenseSet := DisjunctiveLicenseSet{
members: []AnyLicenseInfo{},
}
for
_, triple := range parser.nodeToTriples(node) {
switch triple.Predicate.ID {
case RDF_TYPE:
continue
case SPDX_MEMBER:
member, err := parser.getAnyLicenseFromNode(triple.Object)
if err != nil {
return licenseSet, fmt.Errorf("error parsing disjunctive license set: %v", err)
}
licenseSet.members = append(licenseSet.members, member)
}
}
return licenseSet, nil
}

```

```

func (parser *rdfParser2_3) getConjunctiveLicenseSetFromNode(node *gordfParser.Node) (ConjunctiveLicenseSet,
error) {
licenseSet := ConjunctiveLicenseSet{
members: []AnyLicenseInfo{},
}
for _, triple := range parser.nodeToTriples(node) {
switch triple.Predicate.ID {
case RDF_TYPE:
continue
case SPDX_MEMBER:
member, err := parser.getAnyLicenseFromNode(triple.Object)
if err != nil {
return licenseSet, fmt.Errorf("error parsing conjunctive license set: %v", err)
}
licenseSet.members = append(licenseSet.members, member)
default:
return licenseSet, fmt.Errorf("unknown
subTag for ConjunctiveLicenseSet: %s", triple.Predicate.ID)
}
}
return licenseSet, nil
}

```

```

func (parser *rdfParser2_3) getSimpleLicensingInfoFromTriples(triples []*gordfParser.Triple) (lic
SimpleLicensingInfo, err error) {
for _, triple := range triples {

```

```

switch triple.Predicate.ID {
case RDFS_COMMENT:
 lic.comment = triple.Object.ID
case SPDX_LICENSE_ID:
 lic.licenseID = triple.Object.ID
case SPDX_NAME:
 lic.name = triple.Object.ID
case RDFS_SEE_ALSO:
 if !isUriValid(triple.Object.ID) {
 return lic, fmt.Errorf("%s is not a valid uri for seeAlso attribute of a License", triple.Object.ID)
 }
 lic.seeAlso = append(lic.seeAlso, triple.Object.ID)
case SPDX_EXAMPLE:
 lic.example = triple.Object.ID
case RDF_TYPE:
 continue
default:
 return lic, fmt.Errorf("unknown predicate(%s) for simple licensing info", triple.Predicate)
}
}
return lic, nil
}

```

```

func (parser *rdfParser2_3) getLicenseFromNode(node *gordfParser.Node) (lic License, err error)
{
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
 value := triple.Object.ID
 switch triple.Predicate.ID {
 case SPDX_IS_OSI_APPROVED:
 lic.isOsiApproved, err = boolFromString(value)
 if err != nil {
 return lic, fmt.Errorf("error parsing isOsiApproved attribute of a License: %v", err)
 }
 case SPDX_LICENSE_TEXT:
 lic.licenseText = value
 case SPDX_STANDARD_LICENSE_HEADER:
 lic.standardLicenseHeader = value
 case SPDX_STANDARD_LICENSE_TEMPLATE:
 lic.standardLicenseTemplate = value
 case SPDX_STANDARD_LICENSE_HEADER_TEMPLATE:
 lic.standardLicenseHeaderTemplate = value
 case SPDX_IS_DEPRECATED_LICENSE_ID:
 lic.isDeprecatedLicenseID, err = boolFromString(value)
 if err != nil {
 return lic, fmt.Errorf("error parsing isDeprecatedLicenseId attribute of a License: %v", err)
 }
 }
 }
}

```

```

case SPDX_IS_FSF_LIBRE:
 lic.isFsfLibre, err
= boolFromString(value)
 if err != nil {
 return lic, fmt.Errorf("error parsing isFsfLibre attribute of a License: %v", err)
 }
default:
 restTriples = append(restTriples, triple)
}
}
lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
if err != nil {
 return lic, fmt.Errorf("error setting simple licensing information of a License: %s", err)
}
return lic, nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package parser2v1

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2_1"
)

// ===== Parser other license section state change tests =====
func TestParser2_1OLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_1.OtherLicense{
 LicenseIdentifier: olid1,
 LicenseName: olname1,
 },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // the Document's OtherLicenses

```

```

should have this one only
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
}

// now add a new other license
olid2 := "LicenseRef-22"
olname2 := "License 22"
err := parser.parsePair2_1("LicenseID", olid2)
if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
}
// state should be correct
if parser.st != psOtherLicense2_1 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_1, parser.st)
}
// and an other license should be created
if parser.otherLic == nil {
 t.Fatalf("parser didn't create new other license")
}
// also parse the new license's name
err = parser.parsePair2_1("LicenseName", olname2)
if err != nil {
 t.Errorf("got error when calling parsePair2_1:
%v", err)
}
// state should still be correct
if parser.st != psOtherLicense2_1 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_1, parser.st)
}
// and the other license name should be as expected
if parser.otherLic.LicenseName != olname2 {
 t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
}
// and the Document's Other Licenses should be of size 2 and have these two
if len(parser.doc.OtherLicenses) != 2 {
 t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
}
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
 t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
}

```

```

}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name
%s in OtherLicenses[0], got %s", olname1, parser.doc.OtherLicenses[0].LicenseName)
}
if parser.doc.OtherLicenses[1] != parser.otherLic {
 t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
}
if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
 t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
}
if parser.doc.OtherLicenses[1].LicenseName != olname2 {
 t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
}
}
}

```

```

func TestParser2_1OLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages
 = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair2_1("Reviewer", "Person: John Doe")
 if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
 }
 if parser.st != psReview2_1 {
 t.Errorf("expected state to be %v, got %v", psReview2_1, parser.st)
 }
}

```

```

func TestParser2_1OtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_1.OtherLicense{
 LicenseIdentifier: "LicenseRef-whatever",
 LicenseName: "the whatever license",
 },
 }
}

```

```

 },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files,
 parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair2_1("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
 if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
 }
 // state should remain unchanged
 if parser.st != psOtherLicense2_1 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_1, parser.st)
 }
 // and the relationship should be in the Document's Relationships
 if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
 }
 deID := parser.doc.Relationships[0].RefA
 if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
 }

 err = parser.parsePair2_1("RelationshipComment", "blah")
 if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
 }
 // state should still remain unchanged
 if
 parser.st != psOtherLicense2_1 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_1, parser.st)
 }
}

func TestParser2_1OtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_1.OtherLicense{
 LicenseIdentifier: "LicenseRef-whatever",
 LicenseName: "the whatever license",
 },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)

```

```

parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair2_1("Annotator", "Person: John Doe ()")
if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
}
if parser.st != psOtherLicense2_1 {
 t.Errorf("parser is in state
%v, expected %v", parser.st, psOtherLicense2_1)
}

err = parser.parsePair2_1("AnnotationDate", "2018-09-15T00:36:00Z")
if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
}
if parser.st != psOtherLicense2_1 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_1)
}

err = parser.parsePair2_1("AnnotationType", "REVIEW")
if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
}
if parser.st != psOtherLicense2_1 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_1)
}

err = parser.parsePair2_1("SPDXREF", "SPDXRef-45")
if err != nil {
 t.Errorf("got error when calling parsePair2_1: %v", err)
}
if parser.st != psOtherLicense2_1 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_1)
}

err = parser.parsePair2_1("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair2_1:
%v", err)
}
if parser.st != psOtherLicense2_1 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_1)
}

// and the annotation should be in the Document's Annotations
if len(parser.doc.Annotations) != 1 {
 t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
}

```



```

if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
 t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
}
}

```

```

func TestParser2_1OLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_1.OtherLicense{
 LicenseIdentifier: "LicenseRef-Lic11",
 LicenseName: "License 11",
 },
 }
 parser.doc.Packages = append(parser.doc.Packages,
 parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
}

```

```

// can't go back to old sections
err := parser.parsePair2_1("SPDXVersion", "SPDX-2.1")
if err == nil {
 t.Errorf("expected error when calling parsePair2_1, got nil")
}
err = parser.parsePair2_1("PackageName", "whatever")
if err == nil {
 t.Errorf("expected error when calling parsePair2_1, got nil")
}
err = parser.parsePair2_1("FileName", "whatever")
if err == nil {
 t.Errorf("expected error when calling parsePair2_1, got nil")
}
}
}

```

```

// ===== Other License data section tests =====
func TestParser2_1CanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages
 = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
}

```

```

// License Identifier
err := parser.parsePairFromOtherLicense2_1("LicenseID", "LicenseRef-Lic11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
 t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
}

// Extracted Text
err = parser.parsePairFromOtherLicense2_1("ExtractedText", "You are permitted to do anything with the software, hooray!")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense2_1("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected
nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for _, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense2_1("LicenseCrossReference", cr)
 if err != nil {
 t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
 if refWant == refCheck {
 flagFound = true
 }
 }
}

```

```

 }
 if flagFound == false {
 t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}

if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
 len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense2_1("LicenseComment",
 "this is a comment")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for LicenseComment", parser.otherLic.LicenseComment)
}
}

func TestParser2_1OLUnknownTagFails(t *testing.T) {
 parser := tvParser2_1{
 doc: &v2_1.Document{Packages: []*v2_1.Package{}},
 st: psOtherLicense2_1,
 pkg: &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense2_1("blah", "something")
 if err == nil {
 t.Errorf("expected error from parsing unknown tag")
 }
}

// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package parser2v3

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2_3"
)

// ===== Parser other license section state change tests =====
func TestParser2_3OLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {

```

```

// create the first other license
olid1 := "LicenseRef-Lic11"
olname1 := "License 11"

parser := tvParser2_3{
 doc: &v2_3.Document{Packages: []*v2_3.Package{}},
 st: psOtherLicense2_3,
 pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
 file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_3.OtherLicense{
 LicenseIdentifier: olid1,
 LicenseName: olname1,
 },
}
olic1 := parser.otherLic
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

// the Document's OtherLicenses
should have this one only
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
}

// now add a new other license
olid2 := "LicenseRef-22"
olname2 := "License 22"
err := parser.parsePair2_3("LicenseID", olid2)
if err != nil {
 t.Errorf("got error when calling parsePair2_3: %v", err)
}
// state should be correct
if parser.st != psOtherLicense2_3 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_3, parser.st)
}
// and an other license should be created
if parser.otherLic == nil {
 t.Fatalf("parser didn't create new other license")
}
// also parse the new license's name
err = parser.parsePair2_3("LicenseName", olname2)
if err != nil {
 t.Errorf("got error when calling parsePair2_3:

```

```

%v", err)
}
// state should still be correct
if parser.st != psOtherLicense2_3 {
t.Errorf("expected state to be %v, got %v", psOtherLicense2_3, parser.st)
}
// and the other license name should be as expected
if parser.otherLic.LicenseName != olname2 {
t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
}
// and the Document's Other Licenses should be of size 2 and have these two
if len(parser.doc.OtherLicenses) != 2 {
t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
}
if parser.doc.OtherLicenses[0] != olic1 {
t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
t.Errorf("expected other license name
%s in OtherLicenses[0], got %s", olname1, parser.doc.OtherLicenses[0].LicenseName)
}
if parser.doc.OtherLicenses[1] != parser.otherLic {
t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
}
if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
}
if parser.doc.OtherLicenses[1].LicenseName != olname2 {
t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
}
}

func TestParser2_3OLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
parser := tvParser2_3{
doc: &v2_3.Document{Packages: []*v2_3.Package{}},
st: psOtherLicense2_3,
pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
}
parser.doc.Packages
= append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)

```

```

parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair2_3("Reviewer", "Person: John Doe")
if err != nil {
 t.Errorf("got error when calling parsePair2_3: %v", err)
}
if parser.st != psReview2_3 {
 t.Errorf("expected state to be %v, got %v", psReview2_3, parser.st)
}
}

func TestParser2_3OtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser2_3{
 doc: &v2_3.Document{Packages: []*v2_3.Package{}},
 st: psOtherLicense2_3,
 pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
 file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_3.OtherLicense{
 LicenseIdentifier: "LicenseRef-whatever",
 LicenseName: "the whatever license",
 },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files,
 parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair2_3("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
 if err != nil {
 t.Errorf("got error when calling parsePair2_3: %v", err)
 }
 // state should remain unchanged
 if parser.st != psOtherLicense2_3 {
 t.Errorf("expected state to be %v, got %v", psOtherLicense2_3, parser.st)
 }
 // and the relationship should be in the Document's Relationships
 if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
 }
 deID := parser.doc.Relationships[0].RefA
 if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
 }
}

err = parser.parsePair2_3("RelationshipComment", "blah")
if err != nil {
 t.Errorf("got error when calling parsePair2_3: %v", err)
}
}

```

```

// state should still remain unchanged
if
parser.st != psOtherLicense2_3 {
t.Errorf("expected state to be %v, got %v", psOtherLicense2_3, parser.st)
}
}

func TestParser2_3OtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
parser := tvParser2_3{
doc: &v2_3.Document{Packages: []*v2_3.Package{}},
st: psOtherLicense2_3,
pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
otherLic: &v2_3.OtherLicense{
LicenseIdentifier: "LicenseRef-whatever",
LicenseName: "the whatever license",
},
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair2_3("Annotator", "Person: John Doe ()")
if err != nil {
t.Errorf("got error when calling parsePair2_3: %v", err)
}
if parser.st != psOtherLicense2_3 {
t.Errorf("parser is in state
%v, expected %v", parser.st, psOtherLicense2_3)
}

err = parser.parsePair2_3("AnnotationDate", "2018-09-15T00:36:00Z")
if err != nil {
t.Errorf("got error when calling parsePair2_3: %v", err)
}
if parser.st != psOtherLicense2_3 {
t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_3)
}

err = parser.parsePair2_3("AnnotationType", "REVIEW")
if err != nil {
t.Errorf("got error when calling parsePair2_3: %v", err)
}
if parser.st != psOtherLicense2_3 {
t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_3)
}

err = parser.parsePair2_3("SPDXREF", "SPDXRef-45")

```

```

if err != nil {
 t.Errorf("got error when calling parsePair2_3: %v", err)
}
if parser.st != psOtherLicense2_3 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_3)
}

err = parser.parsePair2_3("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair2_3:
 %v", err)
}
if parser.st != psOtherLicense2_3 {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense2_3)
}

// and the annotation should be in the Document's Annotations
if len(parser.doc.Annotations) != 1 {
 t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
}
if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
 t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
}
}

func TestParser2_3OLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser2_3{
 doc: &v2_3.Document{Packages: []*v2_3.Package{}},
 st: psOtherLicense2_3,
 pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
 file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_3.OtherLicense{
 LicenseIdentifier: "LicenseRef-Lic11",
 LicenseName: "License 11",
 },
 }
 parser.doc.Packages = append(parser.doc.Packages,
 parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // can't go back to old sections
 err := parser.parsePair2_3("SPDXVersion", "SPDX-2.3")
 if err == nil {
 t.Errorf("expected error when calling parsePair2_3, got nil")
 }
 err = parser.parsePair2_3("PackageName", "whatever")
 if err == nil {

```



```

t.Errorf("expected error when calling parsePair2_3, got nil")
}
err = parser.parsePair2_3("FileName", "whatever")
if err == nil {
t.Errorf("expected error when calling parsePair2_3, got nil")
}
}

// ===== Other License data section tests =====
func TestParser2_3CanParseOtherLicenseTags(t *testing.T) {
parser := tvParser2_3{
doc: &v2_3.Document{Packages: []*v2_3.Package{}},
st: psOtherLicense2_3,
pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
}
parser.doc.Packages
= append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

// License Identifier
err := parser.parsePairFromOtherLicense2_3("LicenseID", "LicenseRef-Lic11")
if err != nil {
t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
}

// Extracted Text
err = parser.parsePairFromOtherLicense2_3("ExtractedText", "You are permitted to do anything with the software, hooray!")
if err != nil {
t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense2_3("LicenseName", "License 11")
if err != nil {
t.Errorf("expected
nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

```

```

}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for _, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense2_3("LicenseCrossReference", cr)
 if err != nil {
 t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
 if refWant == refCheck {
 flagFound = true
 }
 }
 if flagFound == false {
 t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}
if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
 len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense2_3("LicenseComment",
 "this is a comment")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for LicenseComment", parser.otherLic.LicenseComment)
}
}

func TestParser2_3OLUnknownTagFails(t *testing.T) {
 parser := tvParser2_3{
 doc: &v2_3.Document{Packages: []*v2_3.Package{}},
 st: psOtherLicense2_3,
 pkg: &v2_3.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_3.File{}},
 file: &v2_3.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
}

```

```

parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePairFromOtherLicense2_3("blah", "something")
if err == nil {
 t.Errorf("expected error from parsing unknown tag")
}
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v2

import (
 "reflect"
 "sort"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_2_getAnyLicenseFromNode(t *testing.T) {
 // since this function is a mux, we just have to make sure that with each
 // type of input, it is able to redirect the request to an appropriate
 // license getter.

 // TestCase 1: input node is just a node string without any associated
 // triple (either a NONE|NOASSERTION) because for other case,
 // the license should've been associated with other triples
 parser, _ := parserFromBodyContent(`
inputNode := &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: NS_SPDX + "NONE",
}
lic, err := parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a SpecialLicense
switch lic.(type) {
case SpecialLicense:
default:
 t.Errorf("expected
license to be of type SpecialLicense, found %v", reflect.TypeOf(lic))
}

// TestCase 2: DisjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`

```

```

<spdx:DisjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:DisjunctiveLicenseSet>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a DisjunctiveLicenseSet
switch lic.(type) {
case DisjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type DisjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 3: ConjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:ConjunctiveLicenseSet>
`)
inputNode
= parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ConjunctiveLicenseSet
switch lic.(type) {
case ConjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type ConjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
<spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {

```

```

t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return
type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
<spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 5: License
parser, _
= parserFromBodyContent(`
<spdx:License rdf:about="http://spdx.org/licenses/Apache-2.0">
 <spdx:standardLicenseTemplate><>& Apache License Version 2.0, January 2004
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 the outstanding shares, or (iii) beneficial ownership
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```
<rdfs:seeAlso>http://www.apache.org/licenses/LICENSE-2.0</rdfs:seeAlso>
<spdx:name>Apache License 2.0</spdx:name>
<spdx:licenseId>Apache-2.0</spdx:licenseId>
<spdx:isOsiApproved>true</spdx:isOsiApproved>
<rdfs:seeAlso>http://www.opensource.org/licenses/Apache-2.0</rdfs:seeAlso>
<spdx:licenseText>...</spdx:licenseText>
<spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
</spdx:License>
```

`)

```
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if
err != nil {
t.Errorf("error parsing a valid license input: %v", err)
```

```

}
// checking if the return type is a License
switch lic.(type) {
case License:
default:
t.Errorf("expected license to be of type License, found %v", reflect.TypeOf(lic))
}

// TestCase 5: WithExceptionOperator
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:licenseException>
 <spdx:LicenseException rdf:nodeID="A1">
 <spdx:example></spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment></rdfs:comment>
 </spdx:LicenseException>
 </spdx:licenseException>
 <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
</spdx:WithExceptionOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a WithExceptionOperator
switch
lic.(type) {
case WithExceptionOperator:
default:
t.Errorf("expected license to be of type WithExceptionOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 6: OrLaterOperator
parser, _ = parserFromBodyContent(`
<spdx:OrLaterOperator>
 <spdx:member>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:member>
</spdx:OrLaterOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {

```



```

t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a OrLaterOperator
switch lic.(type) {
case OrLaterOperator:
default:
t.Errorf("expected license to be of type OrLaterOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 7: checking if an unknown license raises an error.
parser, _ = parserFromBodyContent(`
<spdx:UnknownLicense>
 <spdx:unknownTag
/>
</spdx:UnknownLicense>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
t.Log(err)
if err == nil {
t.Errorf("should've raised an error for invalid input")
}

// TestCase 8: cyclic dependent license must raise an error.
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
 <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
 <spdx:member>
 <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 <spdx:member rdf:resource="http://spdx.org/spdxdocs/spdx-example-444504E0-4F89-41D3-9A0C-
0305E82C3301#SPDXRef-RecursiveLicense"/>
 </spdx:ConjunctiveLicenseSet>
 </spdx:member>
</spdx:ConjunctiveLicenseSet>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
if err == nil {
t.Errorf("expected an error due to cyclic
dependent license. found %v", err)
}
}

func Test_rdfParser2_2_getConjunctiveLicenseSetFromNode(t *testing.T) {
var parser *rdfParser2_2
var err error
var licenseNode *gordfParser.Node

```

```

var license ConjunctiveLicenseSet

// TestCase 1: invalid license member
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:ConjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid license member, found <nil>")
}

// TestCase 2: invalid predicate in the licenseSet.
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/CC0-1.0"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 <spdx:unknownTag />
</spdx:ConjunctiveLicenseSet>
`)
licenseNode
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate found")
}

// TestCase 3: valid example.
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:ConjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers := []string{"LGPL-2.0", "Nokia"}

```

```

sort.Strings(licenseMembers)
if !reflect.DeepEqual(licenseMembers,
expectedLicenseMembers) {
t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
}
}

```

```

func Test_rdfParser2_2_getDisjunctiveLicenseSetFromNode(t *testing.T) {
var parser *rdfParser2_2
var err error
var licenseNode *gordfParser.Node
var license DisjunctiveLicenseSet

```

```

// TestCase 1: invalid license member
parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
<spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
<spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
t.Errorf("expected an error saying invalid license member, found <nil>")
}

```

```

// TestCase 2: invalid predicate in the licenseSet.
parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
<spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
<spdx:member
rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
<spdx:unknownTag />
</spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
t.Errorf("expected an error saying invalid predicate found")
}

```

```

// TestCase 3: valid example.
parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
<spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
<spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:DisjunctiveLicenseSet>
`)

```

```

licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers :=
[]string{ "LGPL-2.0", "Nokia" }
sort.Strings(licenseMembers)
if !reflect.DeepEqual(licenseMembers, expectedLicenseMembers) {
 t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
}
}
}

```

```

func Test_rdfParser2_2_getLicenseExceptionFromNode(t *testing.T) {
 var licenseException LicenseException
 var err error
 var node *gordfParser.Node
 var parser *rdfParser2_2

 // TestCase 1: invalid value for rdf:seeAlso
 parser, _ = parserFromBodyContent(`
<spdx:LicenseException>
<rdfs:seeAlso>see-also</rdfs:seeAlso>
<spdx:example></spdx:example>
<spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
<rdfs:comment></rdfs:comment>
</spdx:LicenseException>
`)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getLicenseExceptionFromNode(node)
 if err == nil {
 t.Errorf("should've raised an error due to invalid uri for rdfs:seeAlso")
 }
}

```

```

// TestCase 2: invalid predicate for licenseException
// TestCase 1: invalid value for rdf:seeAlso
parser,
_ = parserFromBodyContent(`
<spdx:LicenseException>
<spdx:example></spdx:example>
<spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
<rdfs:unknown></rdfs:unknown>
</spdx:LicenseException>

```

```

`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid predicate")
}

// TestCase 3: everything valid
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
<spdx:LicenseException>
 <rdfs:seeAlso rdf:resource="http://www.opensource.org/licenses/GPL-3.0"/>
 <spdx:example>no example</spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment>no comments</rdfs:comment>
 <spdx:licenseExceptionText>text</spdx:licenseExceptionText>
 <spdx:name>name</spdx:name>
</spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
licenseException, err = parser.getLicenseExceptionFromNode(node)
if
err != nil {
 t.Fatalf("unexpected error while parsing a valid licenseException")
}
expectedCrossReference := "http://www.opensource.org/licenses/GPL-3.0"
if licenseException.seeAlso != expectedCrossReference {
 t.Errorf("expected: %s, found: %s", expectedCrossReference, licenseException.seeAlso)
}
expectedExample := "no example"
if licenseException.example != expectedExample {
 t.Errorf("expected: %s, got: %s", expectedExample, licenseException.example)
}
if licenseException.licenseExceptionId != "Libtool-exception" {
 t.Errorf("expected: %s, got: %s", "Libtool-exception", licenseException.licenseExceptionId)
}
if licenseException.comment != "no comments" {
 t.Errorf("expected: %s, got: %s", "no comments", licenseException.comment)
}
if licenseException.licenseExceptionText != "text" {
 t.Errorf("expected: '%s', got: '%s'", "text", licenseException.licenseExceptionText)
}
if licenseException.name != "name" {
 t.Errorf("expected:
%s', got: '%s'", "name", licenseException.name)
}
}
}

```

```

func Test_rdfParser2_2_getLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var license License
 var err error

 // TestCase 1: isOsiApproved is not a valid boolean
 parser, _ = parserFromBodyContent(`
 <spdx:License>
 <spdx:isOsiApproved>no</spdx:isOsiApproved>
 </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
 t.Errorf("expected function to raise an error stating isOsiApproved should be a valid boolean type")
 }

 // TestCase 2: rdf:seeAlso not a valid uri must raise an error
 parser, _ = parserFromBodyContent(`
 <spdx:License>
 <rdfs:seeAlso>uri</rdfs:seeAlso>
 </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
 t.Errorf("expected function to raise an error stating invalid uri for rdfs:seeAlso")
 }

 // TestCase
 3: isDeprecatedLicenseId is not a valid boolean
 parser, _ = parserFromBodyContent(`
 <spdx:License>
 <spdx:isDeprecatedLicenseId>yes</spdx:isDeprecatedLicenseId>
 </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
 t.Errorf("expected function to raise an error stating isDeprecatedLicenseId should be a valid boolean type")
 }

 // TestCase 4: isFsfLibre is not a valid boolean
 parser, _ = parserFromBodyContent(`
 <spdx:License>
 <spdx:isFsfLibre>no</spdx:isFsfLibre>
 </spdx:License>
 `)

```

```

`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isFsfLibre should be a valid boolean type")
}

// TestCase 5: invalid triple for License:
parser, _ = parserFromBodyContent(`
<spdx:License>
 <spdx:unknown />
</spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("invalid predicate should've raised an error, got <nil>")
}

// TestCase 5: everything valid:
parser, _ = parserFromBodyContent(`
<spdx:License rdf:about="http://spdx.org/licenses/GPL-3.0-or-later">
 <rdfs:seeAlso>http://www.opensource.org/licenses/GPL-3.0</rdfs:seeAlso>
 <spdx:isOsiApproved>true</spdx:isOsiApproved>
 <spdx:licenseText>GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007</spdx:licenseText>
 <spdx:name>GNU General Public License v3.0 or later</spdx:name>
 <spdx:standardLicenseHeaderTemplate>...</spdx:standardLicenseHeaderTemplate>
 <spdx:licenseId>GPL-3.0-or-later</spdx:licenseId>
 <rdfs:comment>This license was released: 29 June 2007</rdfs:comment>
 <spdx:isFsfLibre>true</spdx:isFsfLibre>
 <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
 <spdx:standardLicenseTemplate>....</spdx:standardLicenseTemplate>
</spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
expectedSeeAlso := "http://www.opensource.org/licenses/GPL-3.0"
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, got %d", len(license.seeAlso))
}
if license.seeAlso[len(license.seeAlso)-1] != expectedSeeAlso {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.seeAlso)
}

```

```

if license.isOsiApproved != true {
 t.Errorf("expected %t, got %t", true, license.isOsiApproved)
}
expectedLicenseText := "GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007"
if license.licenseText != expectedLicenseText {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.licenseText)
}
expectedName := "GNU General Public License v3.0 or later"
if license.name != expectedName {
 t.Errorf("expected %s, got %s", expectedName, license.name)
}
expectedstdLicHeader := "..."
if license.standardLicenseHeader != expectedstdLicHeader {
 t.Errorf("expected
%s, got %s", expectedstdLicHeader, license.standardLicenseHeader)
}
expectedLicenseId := "GPL-3.0-or-later"
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %s, got %s", expectedLicenseId, license.licenseID)
}
expectedLicenseComment := "This license was released: 29 June 2007"
if expectedLicenseComment != license.comment {
 t.Errorf("expected %s, got %s", expectedLicenseComment, license.comment)
}
expectedstdLicTemplate := "..."
if license.standardLicenseHeader != expectedstdLicTemplate {
 t.Errorf("expected %s, got %s", expectedstdLicTemplate, license.standardLicenseTemplate)
}
expectedstdLicHeaderTemplate := "..."
if license.standardLicenseHeaderTemplate != expectedstdLicHeaderTemplate {
 t.Errorf("expected %s, got %s", expectedstdLicHeaderTemplate, license.standardLicenseHeaderTemplate)
}
if license.isFsfLibre != true {
 t.Errorf("expected %t, got %t", true, license.isFsfLibre)
}
}

```

```

func Test_rdfParser2_2_getOrLaterOperatorFromNode(
 *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(
 <spdx:OrLaterOperator>
 <spdx:member>
 <spdx:SimpleLicensingInfo>

```



```

 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
</spdx:member>
<spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
</spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to more than one members, got <nil>")
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
<spdx:OrLaterOperator>
<spdx:members>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
</spdx:members>
</spdx:OrLaterOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid predicate, got <nil>")
}

// TestCase 5: invalid member
parser, _ = parserFromBodyContent(`
<spdx:OrLaterOperator>
<spdx:member>
 <spdx:SimpleLicensingInfo>
 <spdx:invalidTag />
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
</spdx:member>
</spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Errorf("expected an error parsing invalid license member, got %v", err)
}

```

```

// TestCase 4: valid input
parser, _ = parserFromBodyContent(
 <spdx:OrLaterOperator>
 <spdx:member>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:member>
</spdx:OrLaterOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err != nil {
 t.Errorf("unexpected error parsing a valid input: %v", err)
}
}

func Test_rdfParser2_2_getSimpleLicensingInfoFromNode(t *testing.T) {
 // nothing to test. The just provides an interface to call function that
 // uses triples to render a SimpleLicensingInfo.
 parser, _ := parserFromBodyContent(
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
)
 node := parser.gordfParserObj.Triples[0].Subject
 _, err := parser.getSimpleLicensingInfoFromNode(node)
 if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_2_getSimpleLicensingInfoFromTriples(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var license SimpleLicensingInfo

 // TestCase 1:
 invalid rdf:seeAlso attribute
 parser, _ = parserFromBodyContent(
 <spdx:SimpleLicensingInfo>
 <rdfs:seeAlso>an invalid uri</rdfs:seeAlso>
 </spdx:SimpleLicensingInfo>
)
}

```

```

_, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err == nil {
 t.Error("expected an error reporting invalid uri for rdf:seeAlso, got <nil>")
}

// TestCase 2: invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
<spdx:SimpleLicensingInfo>
<rdfs:invalidPredicate />
</spdx:SimpleLicensingInfo>
`)
_, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err == nil {
 t.Error("expected an error reporting invalid predicate, got <nil>")
}

// TestCase 3: valid example
parser, _ = parserFromBodyContent(`
<spdx:SimpleLicensingInfo>
<rdfs:comment>comment</rdfs:comment>
<spdx:licenseId>lid</spdx:licenseId>
<spdx:name>name</spdx:name>
<rdfs:seeAlso>https://opensource.org/licenses/MPL-1.0</rdfs:seeAlso>
<spdx:example>example</spdx:example>
</spdx:SimpleLicensingInfo>
`)
license, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err != nil {
 t.Fatalf("unexpected error: %v", err)
}
expectedComment := "comment"
expectedLicenseId := "lid"
expectedName := "name"
expectedSeeAlso := "https://opensource.org/licenses/MPL-1.0"
expectedExample := "example"
if expectedComment != license.comment {
 t.Errorf("expected %v, got %v", expectedComment, license.comment)
}
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %v, got %v", expectedLicenseId, license.licenseID)
}
if expectedName != license.name {
 t.Errorf("expected %v, got %v", expectedName, license.name)
}
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, found %d", len(license.seeAlso))
}
if license.seeAlso[0] != expectedSeeAlso {

```

```

t.Errorf("expected %v, got %v", expectedSeeAlso, license.seeAlso[0])
}
if license.example != expectedExample
{
t.Errorf("expected %v, got %v", expectedExample, license.example)
}
}

```

```

func Test_rdfParser2_2_getSpecialLicenseFromNode(t *testing.T) {
var parser *rdfParser2_2
var node *gordfParser.Node
var license SpecialLicense

```

```

// TestCase 1: NONE

```

```

parser, _ = parserFromBodyContent(`)
node = &gordfParser.Node{
NodeType: gordfParser.IRI,
ID: NS_SPDX + "NONE",
}
license, err := parser.getSpecialLicenseFromNode(node)
if err != nil {
t.Errorf("error parsing a valid node: %v", err)
}
if license.value != "NONE" {
t.Errorf("expected %s, got %s", "NONE", license.value)
}

```

```

// TestCase 2: NOASSERTION

```

```

parser, _ = parserFromBodyContent(`)
node = &gordfParser.Node{
NodeType: gordfParser.IRI,
ID: NS_SPDX + "NOASSERTION",
}
license, err = parser.getSpecialLicenseFromNode(node)
if err != nil {
t.Errorf("error parsing a valid node: %v", err)
}
if license.value != "NOASSERTION" {
t.Errorf("expected %s, got %s", "NOASSERTION", license.value)
}

```

```

// TestCase

```

```

4: undefined standard license
parser, _ = parserFromBodyContent(`)
node = &gordfParser.Node{
NodeType: gordfParser.IRI,
ID: "https://opensource.org/licenses/unknown",
}

```

```

_, err = parser.getSpecialLicenseFromNode(node)
if err == nil {
 t.Errorf("expected an error saying invalid license")
}

// TestCase 4: valid standard license
parser, _ = parserFromBodyContent(`
node = &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: "https://opensource.org/licenses/MPL-1.0",
}
license, err = parser.getSpecialLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid node: %v", err)
}
if license.value != "MPL-1.0" {
 t.Errorf("expected %s, got %s", "MPL-1.0", license.value)
}
}

func Test_rdfParser2_2_getWithExceptionOperatorFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
<spdx:member>
<spdx:SimpleLicensingInfo>
<spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
<spdx:name>freeware</spdx:name>
</spdx:SimpleLicensingInfo>
</spdx:member>
<spdx:member
rdf:resource="http://spdx.org/licenses/Nokia"/>
</spdx:WithExceptionOperator>
`)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err == nil {
 t.Errorf("expected an error due to more than one members, got <nil>")
 }

 // TestCase 2: Invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
<spdx:members>

```

```

 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:members>
</spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected
an error due to invalid predicate, got <nil>")
}

// TestCase 3: Invalid member
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later">
 <spdx:unknownTag />
 </spdx:License>
 </spdx:member>
</spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to error parsing a member, got <nil>")
}

// TestCase 4: Invalid licenseException
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:member>
 <spdx:licenseException>
 <spdx:LicenseException>
 <spdx:invalidTag />
 <spdx:example>example</spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment>comment</rdfs:comment>
 </spdx:LicenseException>
 </spdx:licenseException>
</spdx:WithExceptionOperator>
`)
node

```

```

= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid licenseException, got <nil>")
}

// TestCase 5: valid input
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:member>
 <spdx:licenseException>
 <spdx:LicenseException>
 <spdx:example>example</spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment>comment</rdfs:comment>
 </spdx:LicenseException>
 </spdx:licenseException>
</spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package v2_3

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.3 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 // License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseName string `json:"name,omitempty"`
}

```

```

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

import (
 "fmt"

 "github.com/spdx/tools-golang/spdx/v2_3"
)

func (parser *tvParser2_3) parsePairFromOtherLicense2_3(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
 parser.otherLic = &v2_3.OtherLicense{}
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
 parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
 parser.otherLic.ExtractedText = value
 case "LicenseName":
 parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
 parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
 parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
 parser.rln = &v2_3.Relationship{}
 parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
 return parser.parsePairForRelationship2_3(tag,
 value)
 case "RelationshipComment":
 return parser.parsePairForRelationship2_3(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
 parser.ann = &v2_3.Annotation{}
 parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
 }
}

```



```

return parser.parsePairForAnnotation2_3(tag, value)
case "AnnotationDate":
return parser.parsePairForAnnotation2_3(tag, value)
case "AnnotationType":
return parser.parsePairForAnnotation2_3(tag, value)
case "SPDXREF":
return parser.parsePairForAnnotation2_3(tag, value)
case "AnnotationComment":
return parser.parsePairForAnnotation2_3(tag, value)
// tag for going on to review section (DEPRECATED)
case "Reviewer":
parser.st = psReview2_3
return parser.parsePairFromReview2_3(tag, value)
default:
return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
}

```

```

return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

```

```

package parser2v2

```

```

import (
 "reflect"
 "testing"
)

```

```

func Test_getLicenseStringFromURI(t *testing.T) {
 // TestCase 1: NONE license
 input := SPDX_NONE_CAPS
 output := getLicenseStringFromURI(input)
 expectedOutput := "NONE"
 if output != expectedOutput {
 t.Errorf("expected: %s, found %s", expectedOutput, output)
 }
}

```

```

// TestCase 2: NOASSERTION license
input = SPDX_NOASSERTION_SMALL
output = getLicenseStringFromURI(input)
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", expectedOutput, output)
}

```

```

// TestCase 3: Other license
input = NS_SPDX + "LicenseRef-1"
output = getLicenseStringFromURI(input)

```

```

expectedOutput = "LicenseRef-1"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", expectedOutput, output)
}
}

func Test_rdfParser2_2_getChecksumFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 // TestCase 1: invalid checksum algorithm
 parser,
 _ = parserFromBodyContent(`
<spdx:Checksum>
<spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
<spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha999"/>
</spdx:Checksum>
`)
 checksumNode := parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
 t.Errorf("expected an error saying invalid checksum algorithm")
 }

 // TestCase 2: invalid predicate
 parser, _ = parserFromBodyContent(`
<spdx:Checksum>
<spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
<spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
<spdx:invalidPredicate />
</spdx:Checksum>
`)
 checksumNode = parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
 t.Errorf("expected an error saying invalid predicate")
 }

 // TestCase 3: valid input
 parser, _ = parserFromBodyContent(`
<spdx:Checksum>
<spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
<spdx:algorithm
rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
</spdx:Checksum>
`)
 checksumNode = parser.gordfParserObj.Triples[0].Subject
 algorithm, value, err := parser.getChecksumFromNode(checksumNode)
 if err != nil {

```

```

t.Errorf("unexpected error: %v", err)
}
if algorithm != "SHA1" {
t.Errorf("expected checksum algorithm to be sha1, found %s", algorithm)
}
expectedValue := "2fd4e1c67a2d28fced849ee1bb76e7391b93eb12"
if value != expectedValue {
t.Errorf("expected checksumValue to be %s, found %s", expectedValue, value)
}
}
}

```

```

func Test_rdfParser2_2_getAlgorithmFromURI(t *testing.T) {
var algorithmURI string
var err error

// TestCase 1: checksumAlgorithm uri doesn't start with checksumAlgorithm_
algorithmURI = NS_SPDX + "sha1"
_, err = getAlgorithmFromURI(algorithmURI)
if err == nil {
t.Errorf("should've raised an error for algorithmURI
that doesn't start with checksumAlgorithm_")
}
}

```

```

// TestCase 2: unknown checksum algorithm
algorithmURI = NS_SPDX + "checksumAlgorithm_sha999"
_, err = getAlgorithmFromURI(algorithmURI)
if err == nil {
t.Errorf("should've raised an error for invalid algorithm")
}
}

```

```

// TestCase 3: valid input
algorithmURI = NS_SPDX + "checksumAlgorithm_sha256"
algorithm, err := getAlgorithmFromURI(algorithmURI)
if err != nil {
t.Errorf("unexpected error: %v", err)
}
if algorithm != "SHA256" {
t.Errorf("expected: SHA256, found: %s", algorithm)
}
}
}

```

```

func Test_mapLicensesToStrings(t *testing.T) {
// nothing much to test here.
// just a dummy dry run.
licenses := []AnyLicenseInfo{
SpecialLicense{
value: NONE,
},
}
}
}

```

```

SpecialLicense{
 value: NOASSERTION,
},
}
licenseStrings := mapLicensesToStrings(licenses)
expectedLicenseStrings := []string{"NONE", "NOASSERTION"}
if !reflect.DeepEqual(licenseStrings, expectedLicenseStrings) {
 t.Errorf("expected: %+v\nfound %+v", expectedLicenseStrings,
licenseStrings)
}
}
}

```

```

func TestConjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic ConjunctiveLicenseSet
 var output, expectedOutput string

```

```

// TestCase 1: no license in the set

```

```

lic = ConjunctiveLicenseSet{
 members: nil,
}
output = lic.ToLicenseString()
expectedOutput = ""
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

```

```

// TestCase 2: single license in the set

```

```

lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

```

```

// TestCase 3: more than one license in the set.

```

```

lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND NONE"
if output != expectedOutput

```

```

{
t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = ConjunctiveLicenseSet{
members: []AnyLicenseInfo{
SpecialLicense{value: NOASSERTION},
ConjunctiveLicenseSet{
members: []AnyLicenseInfo{
SpecialLicense{value: "LicenseRef-1"},
SpecialLicense{value: NONE},
},
},
},
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND LicenseRef-1 AND NONE"
if output != expectedOutput {
t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

```

```

func TestDisjunctiveLicenseSet_ToLicenseString(t *testing.T) {
var lic DisjunctiveLicenseSet
var output, expectedOutput string

// TestCase 1: no license in the set
lic = DisjunctiveLicenseSet{
members: nil,
}
output = lic.ToLicenseString()
expectedOutput = ""
if output != expectedOutput {
t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

```

```

// TestCase 2: single license in the set
lic = DisjunctiveLicenseSet{
members:
[]AnyLicenseInfo{
SpecialLicense{value: NOASSERTION},
},
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

```

```

}

// TestCase 3: more than one license in the set.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: "LicenseRef-1"},
 SpecialLicense{value: NONE},
 },
 },
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR LicenseRef-1 OR NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

func TestExtractedLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 extractedLicense := ExtractedLicensingInfo{
 SimpleLicensingInfo: SimpleLicensingInfo{
 licenseID: "license",
 },
 extractedText: "extracted Text",
 }
 expectedOutput := "license"
 output := extractedLicense.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

```

```

}

func TestOrLaterOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 orLater := OrLaterOperator{
 member: SimpleLicensingInfo{
 licenseID: "license",
 },
 }
 expectedOutput := "license"
 output := orLater.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 license := License{
 SimpleLicensingInfo: SimpleLicensingInfo{
 licenseID:
 "license",
 },
 }
 expectedOutput := "license"
 output := license.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestListedLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 ll := ListedLicense{License{
 SimpleLicensingInfo: SimpleLicensingInfo{
 licenseID: "license",
 },
 },
}
 expectedOutput := "license"
 output := ll.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestWithExceptionOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)

```

```

withException := WithExceptionOperator{
 member: SimpleLicensingInfo{
 licenseID: "license",
 },
 licenseException: LicenseException{ },
}
expectedOutput := "license"
output := withException.ToLicenseString()
if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
}
}

```

```

func TestSpecialLicense_ToLicenseString(t
*testing.T) {
 // nothing to test (just a dry run)
 specialLicense := SpecialLicense{
 value: "license",
 }
 expectedOutput := "license"
 output := specialLicense.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

```

```

func TestSimpleLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 sli := SimpleLicensingInfo{
 licenseID: "license",
 }
 expectedOutput := "license"
 output := sli.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

```

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

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

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```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
```

```
package saver2v3
```

```
import (
 "fmt"
 "io"
```

```

"github.com/spdx/tools-golang/spdx/v2_3"
)

func renderOtherLicense2_3(ol *v2_3.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
 fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
 fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
 fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
 fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
 fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}

// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package v2_2

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 // License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license

```

```

// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package saver2v2

import (
 "fmt"
 "io"

 "github.com/spdx/tools-golang/spdx/v2_2"
)

func renderOtherLicense2_2(ol *v2_2.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
 fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
 fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
 fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
 fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
 fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v2

import (
 "fmt"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"

```

```

"github.com/spdx/gordf/rdfwriter"
"github.com/spdx/tools-golang/spdx/v2_2"
)

func (parser *rdfParser2_2) getExtractedLicensingInfoFromNode(node *gordfParser.Node) (lic
ExtractedLicensingInfo, err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case SPDX_EXTRACTED_TEXT:
 lic.extractedText = triple.Object.ID
 default:
 restTriples = append(restTriples, triple)
 }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
 return lic, fmt.Errorf("error setting simple licensing information of extracted licensing info: %s", err)
 }
 return lic, nil
}

func (parser *rdfParser2_2) extractedLicenseToOtherLicense(extLicense
ExtractedLicensingInfo) (othLic v2_2.OtherLicense) {
 othLic.LicenseIdentifier = extLicense.licenseID
 othLic.ExtractedText = extLicense.extractedText
 othLic.LicenseComment = extLicense.comment
 othLic.LicenseCrossReferences = extLicense.seeAlso
 othLic.LicenseName = extLicense.name
 return othLic
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

import (
 "reflect"
 "sort"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_3_getAnyLicenseFromNode(t *testing.T) {
 // since this function is a mux, we just have to make sure that with each
 // type of input, it is able to redirect the request to an appropriate
 // license getter.

```

```

// TestCase 1: input node is just a node string without any associated
// triple (either a NONE|NOASSERTION) because for other case,
// the license should've been associated with other triples
parser, _ := parserFromBodyContent(`
inputNode := &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: NS_SPDX + "NONE",
}
lic, err := parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a SpecialLicense
switch lic.(type) {
case SpecialLicense:
default:
 t.Errorf("expected
license to be of type SpecialLicense, found %v", reflect.TypeOf(lic))
}

// TestCase 2: DisjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
<spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
<spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:DisjunctiveLicenseSet>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a DisjunctiveLicenseSet
switch lic.(type) {
case DisjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type DisjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 3: ConjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
<spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
<spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:ConjunctiveLicenseSet>
`)
inputNode

```



```

= parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ConjunctiveLicenseSet
switch lic.(type) {
case ConjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type ConjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
<spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return
type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
<spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ExtractedLicensingInfo
switch lic.(type) {

```

```

case ExtractedLicensingInfo:
default:
t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 5: License
parser, _
= parserFromBodyContent(
<spdx:License rdf:about="http://spdx.org/licenses/Apache-2.0">
<spdx:standardLicenseTemplate><> Apache License Version 2.0, January 2004
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```
</spdx:standardLicenseTemplate>
 <rdfs:seeAlso>http://www.apache.org/licenses/LICENSE-2.0</rdfs:seeAlso>
 <spdx:name>Apache License 2.0</spdx:name>
 <spdx:licenseId>Apache-2.0</spdx:licenseId>
 <spdx:isOsiApproved>true</spdx:isOsiApproved>
 <rdfs:seeAlso>http://www.opensource.org/licenses/Apache-2.0</rdfs:seeAlso>
 <spdx:licenseText>...</spdx:licenseText>
 <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
</spdx:License>
```

```
)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if
err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a License
switch lic.(type) {
case License:
default:
 t.Errorf("expected license to be of type License, found %v", reflect.TypeOf(lic))
}
```

```
// TestCase 5: WithExceptionOperator
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:licenseException>
 <spdx:LicenseException rdf:nodeID="A1">
 <spdx:example></spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment></rdfs:comment>
 </spdx:LicenseException>
</spdx:licenseException>
<spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
</spdx:WithExceptionOperator>
```

```
)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
```

```

}
// checking if the return type is a WithExceptionOperator
switch
lic.(type) {
case WithExceptionOperator:
default:
t.Errorf("expected license to be of type WithExceptionOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 6: OrLaterOperator
parser, _ = parserFromBodyContent(`
<spdx:OrLaterOperator>
<spdx:member>
<spdx:SimpleLicensingInfo>
<spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
<spdx:name>freeware</spdx:name>
</spdx:SimpleLicensingInfo>
</spdx:member>
</spdx:OrLaterOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a OrLaterOperator
switch lic.(type) {
case OrLaterOperator:
default:
t.Errorf("expected license to be of type OrLaterOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 7: checking if an unknown license raises an error.
parser, _ = parserFromBodyContent(`
<spdx:UnknownLicense>
<spdx:unknownTag
/>
</spdx:UnknownLicense>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
t.Log(err)
if err == nil {
t.Errorf("should've raised an error for invalid input")
}

// TestCase 8: cyclic dependent license must raise an error.
parser, _ = parserFromBodyContent(`

```

```

<spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
 <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
 <spdx:member>
 <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 <spdx:member rdf:resource="http://spdx.org/spdxdocs/spdx-example-444504E0-4F89-41D3-9A0C-
0305E82C3301#SPDXRef-RecursiveLicense"/>
 </spdx:ConjunctiveLicenseSet>
 </spdx:member>
</spdx:ConjunctiveLicenseSet>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
if err == nil {
 t.Errorf("expected an error due to cyclic
dependent license. found %v", err)
}
}

func Test_rdfParser2_3_getConjunctiveLicenseSetFromNode(t *testing.T) {
var parser *rdfParser2_3
var err error
var licenseNode *gordfParser.Node
var license ConjunctiveLicenseSet

// TestCase 1: invalid license member
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:ConjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid license member, found <nil>")
}

// TestCase 2: invalid predicate in the licenseSet.
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/CC0-1.0"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 <spdx:unknownTag />
</spdx:ConjunctiveLicenseSet>
`)
licenseNode

```

```

= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate found")
}

// TestCase 3: valid example.
parser, _ = parserFromBodyContent(`
<spdx:ConjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:ConjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers := []string{"LGPL-2.0", "Nokia"}
sort.Strings(licenseMembers)
if !reflect.DeepEqual(licenseMembers,
 expectedLicenseMembers) {
 t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
}
}

func Test_rdfParser2_3_getDisjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var licenseNode *gordfParser.Node
 var license DisjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:DisjunctiveLicenseSet>
`)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
 t.Errorf("expected an error saying invalid license member, found <nil>")
 }
}

```

```

}

// TestCase 2: invalid predicate in the licenseSet.
parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
 <spdx:member
rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 <spdx:unknownTag />
</spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate found")
}

// TestCase 3: valid example.
parser, _ = parserFromBodyContent(`
<spdx:DisjunctiveLicenseSet>
 <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
</spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers :=
[]string{"LGPL-2.0", "Nokia"}
sort.Strings(licenseMembers)
if !reflect.DeepEqual(licenseMembers, expectedLicenseMembers) {
 t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
}
}

func Test_rdfParser2_3_getLicenseExceptionFromNode(t *testing.T) {
 var licenseException LicenseException
 var err error
 var node *gordfParser.Node
 var parser *rdfParser2_3

```



```

// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
<spdx:LicenseException>
 <rdfs:seeAlso>see-also</rdfs:seeAlso>
 <spdx:example></spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment></rdfs:comment>
</spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid uri for rdfs:seeAlso")
}

// TestCase 2: invalid predicate for licenseException
// TestCase 1: invalid value for rdf:seeAlso
parser,
_ = parserFromBodyContent(`
<spdx:LicenseException>
 <spdx:example></spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:unknown></rdfs:unknown>
</spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid predicate")
}

// TestCase 3: everything valid
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
<spdx:LicenseException>
 <rdfs:seeAlso rdf:resource="http://www.opensource.org/licenses/GPL-3.0"/>
 <spdx:example>no example</spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment>no comments</rdfs:comment>
 <spdx:licenseExceptionText>text</spdx:licenseExceptionText>
 <spdx:name>name</spdx:name>
</spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
licenseException, err = parser.getLicenseExceptionFromNode(node)
if
err != nil {
 t.Fatalf("unexpected error while parsing a valid licenseException")
}

```

```

}
expectedCrossReference := "http://www.opensource.org/licenses/GPL-3.0"
if licenseException.seeAlso != expectedCrossReference {
 t.Errorf("expected: %s, found: %s", expectedCrossReference, licenseException.seeAlso)
}
expectedExample := "no example"
if licenseException.example != expectedExample {
 t.Errorf("expected: %s, got: %s", expectedExample, licenseException.example)
}
if licenseException.licenseExceptionId != "Libtool-exception" {
 t.Errorf("expected: %s, got: %s", "Libtool-exception", licenseException.licenseExceptionId)
}
if licenseException.comment != "no comments" {
 t.Errorf("expected: %s, got: %s", "no comments", licenseException.comment)
}
if licenseException.licenseExceptionText != "text" {
 t.Errorf("expected: '%s', got: '%s'", "text", licenseException.licenseExceptionText)
}
if licenseException.name != "name" {
 t.Errorf("expected:
%s', got: '%s'", "name", licenseException.name)
}
}

func Test_rdfParser2_3_getLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var license License
 var err error

 // TestCase 1: isOsiApproved is not a valid boolean
 parser, _ = parserFromBodyContent(`
<spdx:License>
<spdx:isOsiApproved>no</spdx:isOsiApproved>
</spdx:License>
`)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
 t.Errorf("expected function to raise an error stating isOsiApproved should be a valid boolean type")
 }

 // TestCase 2: rdf:seeAlso not a valid uri must raise an error
 parser, _ = parserFromBodyContent(`
<spdx:License>
<rdfs:seeAlso>uri</rdfs:seeAlso>
</spdx:License>
`)

```

```

node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating invalid uri for rdfs:seeAlso")
}

// TestCase
3: isDeprecatedLicenseId is not a valid boolean
parser, _ = parserFromBodyContent(`
<spdx:License>
<spdx:isDeprecatedLicenseId>yes</spdx:isDeprecatedLicenseId>
</spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isDeprecatedLicenseId should be a valid boolean type")
}

// TestCase 4: isFsfLibre is not a valid boolean
parser, _ = parserFromBodyContent(`
<spdx:License>
<spdx:isFsfLibre>no</spdx:isFsfLibre>
</spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isFsfLibre should be a valid boolean type")
}

// TestCase 5: invalid triple for License:
parser, _ = parserFromBodyContent(`
<spdx:License>
<spdx:unknown />
</spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("invalid predicate should've raised an error, got <nil>")
}

// TestCase 5: everything valid:
parser, _ = parserFromBodyContent(`
<spdx:License rdf:about="http://spdx.org/licenses/GPL-3.0-or-later">
<rdfs:seeAlso>http://www.opensource.org/licenses/GPL-3.0</rdfs:seeAlso>
`)

```

```

<spdx:isOsiApproved>true</spdx:isOsiApproved>
<spdx:licenseText>GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007</spdx:licenseText>
<spdx:name>GNU General Public License v3.0 or later</spdx:name>
<spdx:standardLicenseHeaderTemplate>...</spdx:standardLicenseHeaderTemplate>
<spdx:licenseId>GPL-3.0-or-later</spdx:licenseId>
<rdfs:comment>This license was released: 29 June 2007</rdfs:comment>
<spdx:isFsfLibre>true</spdx:isFsfLibre>
<spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
<spdx:standardLicenseTemplate>....</spdx:standardLicenseTemplate>
</spdx:License>

```

```
`)
```

```

node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
expectedSeeAlso := "http://www.opensource.org/licenses/GPL-3.0"
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, got %d", len(license.seeAlso))
}
if license.seeAlso[len(license.seeAlso)-1] != expectedSeeAlso {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.seeAlso)
}
if license.isOsiApproved != true {
 t.Errorf("expected %t, got %t", true, license.isOsiApproved)
}
expectedLicenseText := "GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007"
if license.licenseText != expectedLicenseText {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.licenseText)
}
expectedName := "GNU General Public License v3.0 or later"
if license.name != expectedName {
 t.Errorf("expected %s, got %s", expectedName, license.name)
}
expectedstdLicHeader := "..."
if license.standardLicenseHeader != expectedstdLicHeader {
 t.Errorf("expected
%s, got %s", expectedstdLicHeader, license.standardLicenseHeader)
}
expectedLicenseId := "GPL-3.0-or-later"
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %s, got %s", expectedLicenseId, license.licenseID)
}
expectedLicenseComment := "This license was released: 29 June 2007"
if expectedLicenseComment != license.comment {
 t.Errorf("expected %s, got %s", expectedLicenseComment, license.comment)
}

```

```

expectedstdLicTemplate := "..."
if license.standardLicenseHeader != expectedstdLicTemplate {
 t.Errorf("expected %s, got %s", expectedstdLicTemplate, license.standardLicenseTemplate)
}
expectedstdLicHeaderTemplate := "..."
if license.standardLicenseHeaderTemplate != expectedstdLicHeaderTemplate {
 t.Errorf("expected %s, got %s", expectedstdLicHeaderTemplate, license.standardLicenseHeaderTemplate)
}
if license.isFsfLibre != true {
 t.Errorf("expected %t, got %t", true, license.isFsfLibre)
}
}

```

```

func Test_rdfParser2_3_getOrLaterOperatorFromNode(
 *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
 <spdx:member>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:member>
 <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 </spdx:OrLaterOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
 t.Errorf("expected an error due to more than one members, got <nil>")
 }
}

```

```

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
 <spdx:members>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:members>
 </spdx:OrLaterOperator>
 `)

```

```

node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
t.Error("expected an error due to invalid predicate, got <nil>")
}

// TestCase 5: invalid member
parser, _ = parserFromBodyContent(`
<spdx:OrLaterOperator>
<spdx:member>
<spdx:SimpleLicensingInfo>
<spdx:invalidTag />
<spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
<spdx:name>freeware</spdx:name>
</spdx:SimpleLicensingInfo>
</spdx:member>
</spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
t.Errorf("expected an error parsing invalid license member, got %v", err)
}

// TestCase 4: valid input
parser, _ = parserFromBodyContent(`
<spdx:OrLaterOperator>
<spdx:member>
<spdx:SimpleLicensingInfo>
<spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
<spdx:name>freeware</spdx:name>
</spdx:SimpleLicensingInfo>
</spdx:member>
</spdx:OrLaterOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err != nil {
t.Errorf("unexpected error parsing a valid input: %v", err)
}
}

func Test_rdfParser2_3_getSimpleLicensingInfoFromNode(t *testing.T) {
// nothing to test. The just provides an interface to call function that
// uses triples to render a SimpleLicensingInfo.
parser, _ := parserFromBodyContent(`

```

```

<spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
</spdx:SimpleLicensingInfo>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err := parser.getSimpleLicensingInfoFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
}

func Test_rdfParser2_3_getSimpleLicensingInfoFromTriples(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var license SimpleLicensingInfo

 // TestCase 1:
 invalid rdf:seeAlso attribute
 parser, _ = parserFromBodyContent(`
<spdx:SimpleLicensingInfo>
 <rdfs:seeAlso>an invalid uri</rdfs:seeAlso>
</spdx:SimpleLicensingInfo>
`)
 _, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err == nil {
 t.Errorf("expected an error reporting invalid uri for rdf:seeAlso, got <nil>")
 }

 // TestCase 2: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
<spdx:SimpleLicensingInfo>
 <rdfs:invalidPredicate />
</spdx:SimpleLicensingInfo>
`)
 _, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err == nil {
 t.Errorf("expected an error reporting invalid predicate, got <nil>")
 }

 // TestCase 3: valid example
 parser, _ = parserFromBodyContent(`
<spdx:SimpleLicensingInfo>
 <rdfs:comment>comment</rdfs:comment>
 <spdx:licenseId>lid</spdx:licenseId>
 <spdx:name>name</spdx:name>
 <rdfs:seeAlso>https://opensource.org/licenses/MPL-1.0</rdfs:seeAlso>
 <spdx:example>example</spdx:example>

```

```

</spdx:SimpleLicensingInfo>
`)
license, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err != nil {
 t.Fatalf("unexpected error: %v", err)
}
expectedComment := "comment"
expectedLicenseId := "lid"
expectedName := "name"
expectedSeeAlso := "https://opensource.org/licenses/MPL-1.0"
expectedExample := "example"
if expectedComment != license.comment {
 t.Errorf("expected %v, got %v", expectedComment, license.comment)
}
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %v, got %v", expectedLicenseId, license.licenseID)
}
if expectedName != license.name {
 t.Errorf("expected %v, got %v", expectedName, license.name)
}
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, found %d", len(license.seeAlso))
}
if license.seeAlso[0] != expectedSeeAlso {
 t.Errorf("expected %v, got %v", expectedSeeAlso, license.seeAlso[0])
}
if license.example != expectedExample {
 {
 t.Errorf("expected %v, got %v", expectedExample, license.example)
 }
}

func Test_rdfParser2_3_getSpecialLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var license SpecialLicense

 // TestCase 1: NONE
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: NS_SPDX + "NONE",
 }
 license, err := parser.getSpecialLicenseFromNode(node)
 if err != nil {
 t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NONE" {

```



```

t.Errorf("expected %s, got %s", "NONE", license.value)
}

// TestCase 2: NOASSERTION
parser, _ = parserFromBodyContent(`)
node = &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: NS_SPDX + "NOASSERTION",
}
license, err = parser.getSpecialLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid node: %v", err)
}
if license.value != "NOASSERTION" {
 t.Errorf("expected %s, got %s", "NOASSERTION", license.value)
}

// TestCase
4: undefined standard license
parser, _ = parserFromBodyContent(`)
node = &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: "https://opensource.org/licenses/unknown",
}
_, err = parser.getSpecialLicenseFromNode(node)
if err == nil {
 t.Errorf("expected an error saying invalid license")
}

// TestCase 4: valid standard license
parser, _ = parserFromBodyContent(`)
node = &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID: "https://opensource.org/licenses/MPL-1.0",
}
license, err = parser.getSpecialLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid node: %v", err)
}
if license.value != "MPL-1.0" {
 t.Errorf("expected %s, got %s", "MPL-1.0", license.value)
}
}

func Test_rdfParser2_3_getWithExceptionOperatorFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var err error

```

```

// TestCase 1: more than one member in the OrLaterOperator tag must raise an error
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:member>
 <spdx:member
rdf:resource="http://spdx.org/licenses/Nokia"/>
</spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to more than one members, got <nil>")
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:members>
 <spdx:SimpleLicensingInfo>
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 </spdx:SimpleLicensingInfo>
 </spdx:members>
</spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected
an error due to invalid predicate, got <nil>")
}

// TestCase 3: Invalid member
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later">
 <spdx:unknownTag />
 </spdx:License>
 </spdx:member>
</spdx:WithExceptionOperator>
`)

```

```

node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to error parsing a member, got <nil>")
}

// TestCase 4: Invalid licenseException
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:member>
 <spdx:licenseException>
 <spdx:LicenseException>
 <spdx:invalidTag />
 <spdx:example>example</spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment>comment</rdfs:comment>
 </spdx:LicenseException>
 </spdx:licenseException>
</spdx:WithExceptionOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid licenseException, got <nil>")
}

// TestCase 5: valid input
parser, _ = parserFromBodyContent(`
<spdx:WithExceptionOperator>
 <spdx:member>
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:member>
 <spdx:licenseException>
 <spdx:LicenseException>
 <spdx:example>example</spdx:example>
 <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
 <rdfs:comment>comment</rdfs:comment>
 </spdx:LicenseException>
 </spdx:licenseException>
</spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}

```

```

}
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

import (
 "reflect"
 "testing"
)

func Test_getLicenseStringFromURI(t *testing.T) {
 // TestCase 1: NONE license
 input := SPDX_NONE_CAPS
 output := getLicenseStringFromURI(input)
 expectedOutput := "NONE"
 if output != expectedOutput {
 t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 2: NOASSERTION license
 input = SPDX_NOASSERTION_SMALL
 output = getLicenseStringFromURI(input)
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
 t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 3: Other license
 input = NS_SPDX + "LicenseRef-1"
 output = getLicenseStringFromURI(input)
 expectedOutput = "LicenseRef-1"
 if output != expectedOutput {
 t.Errorf("expected: %s, found %s", expectedOutput, output)
 }
}

func Test_rdfParser2_3_getChecksumFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 // TestCase 1: invalid checksum algorithm
 parser,
 _ = parserFromBodyContent(`
<spdx:Checksum>
<spdx:checksumValue>2fd4e1c67a2d28fcd849ee1bb76e7391b93eb12</spdx:checksumValue>
<spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha999"/>
</spdx:Checksum>
`)

```

```

checksumNode := parser.gordfParserObj.Triples[0].Subject
_, _, err = parser.getChecksumFromNode(checksumNode)
if err == nil {
 t.Errorf("expected an error saying invalid checksum algorithm")
}

// TestCase 2: invalid predicate
parser, _ = parserFromBodyContent(`
<spdx:Checksum>
<spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
<spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
<spdx:invalidPredicate />
</spdx:Checksum>
`)
checksumNode = parser.gordfParserObj.Triples[0].Subject
_, _, err = parser.getChecksumFromNode(checksumNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate")
}

// TestCase 3: valid input
parser, _ = parserFromBodyContent(`
<spdx:Checksum>
<spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
<spdx:algorithm
rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
</spdx:Checksum>
`)
checksumNode = parser.gordfParserObj.Triples[0].Subject
algorithm, value, err := parser.getChecksumFromNode(checksumNode)
if err != nil {
 t.Errorf("unexpected error: %v", err)
}
if algorithm != "SHA1" {
 t.Errorf("expected checksum algorithm to be sha1, found %s", algorithm)
}
expectedValue := "2fd4e1c67a2d28fced849ee1bb76e7391b93eb12"
if value != expectedValue {
 t.Errorf("expected checksumValue to be %s, found %s", expectedValue, value)
}
}

func Test_rdfParser2_3_getAlgorithmFromURI(t *testing.T) {
 var algorithmURI string
 var err error

 // TestCase 1: checksumAlgorithm uri doesn't start with checksumAlgorithm_
 algorithmURI = NS_SPDX + "sha1"

```

```

_, err = getAlgorithmFromURI(algorithmURI)
if err == nil {
 t.Errorf("should've raised an error for algorithmURI
that doesn't start with checksumAlgorithm_")
}

// TestCase 2: unknown checksum algorithm
algorithmURI = NS_SPDX + "checksumAlgorithm_sha999"
_, err = getAlgorithmFromURI(algorithmURI)
if err == nil {
 t.Errorf("should've raised an error for invalid algorithm")
}

// TestCase 3: valid input
algorithmURI = NS_SPDX + "checksumAlgorithm_sha256"
algorithm, err := getAlgorithmFromURI(algorithmURI)
if err != nil {
 t.Errorf("unexpected error: %v", err)
}
if algorithm != "SHA256" {
 t.Errorf("expected: SHA256, found: %s", algorithm)
}
}

func Test_mapLicensesToStrings(t *testing.T) {
 // nothing much to test here.
 // just a dummy dry run.
 licenses := []AnyLicenseInfo{
 SpecialLicense{
 value: NONE,
 },
 SpecialLicense{
 value: NOASSERTION,
 },
 }
 licenseStrings := mapLicensesToStrings(licenses)
 expectedLicenseStrings := []string{"NONE", "NOASSERTION"}
 if !reflect.DeepEqual(licenseStrings, expectedLicenseStrings) {
 t.Errorf("expected: %+v\nfound %+v", expectedLicenseStrings,
licenseStrings)
 }
}

func TestConjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic ConjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set

```

```

lic = ConjunctiveLicenseSet{
 members: nil,
}
output = lic.ToLicenseString()
expectedOutput = ""
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 2: single license in the set
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 3: more than one license in the set.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: "LicenseRef-1"},
 SpecialLicense{value: NONE},
 },
 },
 },
}
output = lic.ToLicenseString()

```

```

expectedOutput = "NOASSERTION AND LicenseRef-1 AND NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

```

```

func TestDisjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic DisjunctiveLicenseSet
 var output, expectedOutput string

```

```

// TestCase 1: no license in the set

```

```

lic = DisjunctiveLicenseSet{
 members: nil,
}
output = lic.ToLicenseString()
expectedOutput = ""
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

```

```

// TestCase 2: single license in the set

```

```

lic = DisjunctiveLicenseSet{
 members:
 []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

```

```

// TestCase 3: more than one license in the set.

```

```

lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

```

```

// TestCase 4: nested conjunctive license.

```

```

lic = DisjunctiveLicenseSet{

```



```

members: []AnyLicenseInfo{
 SpecialLicense{value: NOASSERTION},
 DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
 SpecialLicense{value: "LicenseRef-1"},
 SpecialLicense{value: NONE},
 },
 },
},
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR LicenseRef-1 OR NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

```

```

func TestExtractedLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 extractedLicense := ExtractedLicensingInfo{
 SimpleLicensingInfo: SimpleLicensingInfo{
 licenseID: "license",
 },
 extractedText: "extracted Text",
 }
 expectedOutput := "license"
 output := extractedLicense.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

```

```

func TestOrLaterOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 orLater := OrLaterOperator{
 member: SimpleLicensingInfo{
 licenseID: "license",
 },
 }
 expectedOutput := "license"
 output := orLater.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

```

```

func TestLicense_ToLicenseString(t *testing.T) {

```

```

// nothing to test (just a dry run)
license := License{
 SimpleLicensingInfo: SimpleLicensingInfo{
 licenseID:
"license",
 },
}
expectedOutput := "license"
output := license.ToLicenseString()
if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
}
}

func TestListedLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 ll := ListedLicense{License{
 SimpleLicensingInfo: SimpleLicensingInfo{
 licenseID: "license",
 },
 },
}
expectedOutput := "license"
output := ll.ToLicenseString()
if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
}
}

func TestWithExceptionOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 withException := WithExceptionOperator{
 member: SimpleLicensingInfo{
 licenseID: "license",
 },
 licenseException: LicenseException{ },
 }
 expectedOutput := "license"
 output := withException.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSpecialLicense_ToLicenseString(t
*testing.T) {
 // nothing to test (just a dry run)
 specialLicense := SpecialLicense{

```

```

 value: "license",
 }
 expectedOutput := "license"
 output := specialLicense.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSimpleLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 sli := SimpleLicensingInfo{
 licenseID: "license",
 }
 expectedOutput := "license"
 output := sli.ToLicenseString()
 if output != expectedOutput {
 t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

import (
 "fmt"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
 "github.com/spdx/tools-golang/spdx/v2_3"
)

func (parser *rdfParser2_3) getExtractedLicensingInfoFromNode(node *gordfParser.Node) (lic
ExtractedLicensingInfo, err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case SPDX_EXTRACTED_TEXT:
 lic.extractedText = triple.Object.ID
 default:
 restTriples = append(restTriples, triple)
 }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
 return lic, fmt.Errorf("error setting simple licensing information of extracted licensing info: %s", err)
 }
}

```

```

return lic, nil
}

func (parser *rdfParser2_3) extractedLicenseToOtherLicense(extLicense
ExtractedLicensingInfo) (othLic v2_3.OtherLicense) {
othLic.LicenseIdentifier = extLicense.licenseID
othLic.ExtractedText = extLicense.extractedText
othLic.LicenseComment = extLicense.comment
othLic.LicenseCrossReferences = extLicense.seeAlso
othLic.LicenseName = extLicense.name
return othLic
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package saver2v1

import (
"fmt"
"io"

"github.com/spdx/tools-golang/spdx/v2_1"
)

func renderOtherLicense2_1(ol *v2_1.OtherLicense, w io.Writer) error {
if ol.LicenseIdentifier != "" {
fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
}
if ol.ExtractedText != "" {
fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
}
if ol.LicenseName != "" {
fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
}
for _, s := range ol.LicenseCrossReferences {
fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
}
if ol.LicenseComment != "" {
fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
}

fmt.Fprintf(w, "\n")

return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package parser2v3

```

```

import (
 "reflect"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_3_getExtractedLicensingInfoFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var node *gordfParser.Node

 // TestCase 1: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-
 spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseID>LicenseRef-Freeware</spdx:licenseID>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional
 for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or
 as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the
 rights to use,
 copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The
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 individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian
 organizations, non-military use, use by public authorities or various other combinations of these type of
 restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may
 also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use
 in a combination with some types of other software or with some hardware devices, prohibited distribution over the
 Internet other than linking to author's website, restricted distribution without author's consent, restricted number of
 copies, etc.]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err == nil {
 t.Errorf("expected an error saying invalid predicate, got <nil>")
 }

 // TestCase 2: valid input
 parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-
 spdx.rdf#LicenseRef-Freeware">
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
 <spdx:name>freeware</spdx:name>
 <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional
 for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or

```

as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>

```
</spdx:ExtractedLicensingInfo>
```

```
)
```

```
node = parser.gordfParserObj.Triples[0].Subject
```

```
_, err = parser.getExtractedLicensingInfoFromNode(node)
```

```
if err != nil {
```

```
 t.Errorf("unexpected
```

```
error: %v", err)
```

```
}
```

```
}
```

```
func Test_rdfParser2_3_extractedLicenseToOtherLicense(t *testing.T) {
```

```
 // nothing to test for this function.
```

```
 parser, _ := parserFromBodyContent(`
```

```
<spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
```

```
 <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
```

```
 <spdx:name>freeware</spdx:name>
```

```
<spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
```

```
</spdx:ExtractedLicensingInfo>
```

```
)
```

```
node := parser.gordfParserObj.Triples[0].Subject
```

```
extLicense, _ := parser.getExtractedLicensingInfoFromNode(node)
```

```
othLic := parser.extractedLicenseToOtherLicense(extLicense)
```

```
if othLic.LicenseIdentifier != extLicense.licenseID
```

```

{
 t.Errorf("expected %v, got %v", othLic.LicenseIdentifier, extLicense.licenseID)
}
if othLic.ExtractedText != extLicense.extractedText {
 t.Errorf("expected %v, got %v", othLic.ExtractedText, extLicense.extractedText)
}
if othLic.LicenseComment != extLicense.comment {
 t.Errorf("expected %v, got %v", othLic.LicenseComment, extLicense.comment)
}
if !reflect.DeepEqual(othLic.LicenseCrossReferences, extLicense.seeAlso) {
 t.Errorf("expected %v, got %v", othLic.LicenseCrossReferences, extLicense.seeAlso)
}
if othLic.LicenseName != extLicense.name {
 t.Errorf("expected %v, got %v", othLic.LicenseName, extLicense.name)
}
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

```

```

package v2_1

```

```

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.

```

```

type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 // License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 // is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}

```

```

// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package saver2v3

import (
 "bytes"
 "testing"

 "github.com/spdx/tools-golang/spdx/v2_3"
)

// ===== Other License section Saver tests =====
func TestSaver2_3OtherLicenseSavesText(t *testing.T) {
 ol := &v2_3.OtherLicense{
 LicenseIdentifier: "LicenseRef-1",
 ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
 LicenseName: "License 1",
 LicenseCrossReferences: []string{
 "http://example.com/License1/",
 "http://example.com/License1AnotherURL/"
 },
 LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`

```



```

if c != 0 {
 t.Errorf("Expected %v, got %v", want.String(), got.String())
}
}

func TestSaver2_3OtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &v2_3.OtherLicense{
 LicenseIdentifier: "LicenseRef-1",
 ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
 LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense2_3(ol, &got)
 if err != nil {
 t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
 t.Errorf("Expected %v, got %v", want.String(),
got.String())
 }
}
}

```

# 1.451 grpc-go 1.53.0

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## 1.461 aws-aws-sdk-go-v2 1.18.6

### 1.461.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```

// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
}

```

```

if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

```

uses: actions/checkout@v2
with:
 path: sdkbase
 ref: ${ { github.base_ref } }
- name: Checkout this ref
uses: actions/checkout@v2
with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2
with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
uses: actions/setup-python@v2
with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
working-directory: ./scancode-toolkit
run: ./scancode --help
- name: Run Scan code on target
run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"

```



```

)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {

```

```

return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

```

```

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}

```

```

}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
..func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//

```

```

// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```



```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version

```

```

*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde

```

```

}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

```



```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
```

```

...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.

```

```

//

```

```

// This member is required.

```

```

ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)

```

```

// algorithm PS384. For more information, see RFC 7518 Digital Signature with

```

```

// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .

```

```

//

```

```

// This member is required.

```

```

DigitalSignatureMethod types.DigitalSignatureMethod

```

```

// License entitlements. Partial checkouts are not supported.

```

```

//

```

```

// This member is required.

```

```

Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow

```

```

// consumption configuration.

```

```

//

```

```

// This member is required.

```

```

LicenseArn *string

```

```

// Information about constraints.

```

```

CheckoutMetadata []types.Metadata

```

```

// Node ID.

```

```

NodeId *string

```



```

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata

```

```

return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:
//
- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
}
if

```



```

err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
}

```

# 1.462 kubernetes-klog 2.90.1

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# 1.463 prometheus-common 0.42.0

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```
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```

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```
* /opt/cola/permits/1596790696_1678942573.2272656/0/feign-jackson-10-2-0-sources-1-
jar/feign/jackson/JacksonDecoder.java
```

```
* /opt/cola/permits/1596790696_1678942573.2272656/0/feign-jackson-10-2-0-sources-1-
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```

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-->

Found in path(s):

\* /opt/cola/permits/1596790696\_1678942573.2272656/0/feign-jackson-10-2-0-sources-1-jar/META-INF/maven/io.github.openfeign/feign-jackson/pom.xml

## 1.465 feign-core 10.2.0

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Manifest-Version: 1.0

Bundle-Description: Feign Core

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: io.github.openfeign.feign-core

Built-By: marvin

Bnd-LastModified: 1550184609515

Bundle-ManifestVersion: 2

Bundle-DocURL: <https://github.com/openfeign>

Bundle-Vendor: OpenFeign

Import-Package: feign,feign.codec,feign.querymap,feign.template,javax.net.ssl

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-4.0.0.201805111645

Export-Package: feign;uses:="feign.codec,feign.querymap,javax.net.ssl";version="10.2.0",feign.auth;uses:="feign;version="10.2.0",feign.codec;uses:="feign;version="10.2.0",feign.stream;uses:="feign,feign.codec";version="10.2.0",feign.template;uses:="feign;version="10.2.0",feign.optionals;uses:="feign,feign.codec";version="10.2.0",feign.querymap;uses:="feign,feign.codec";version="10.2.0"

Bundle-Name: Feign Core

Bundle-Version: 10.2.0

Created-By:

Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_181

Found in path(s):

\* /opt/cola/permits/1596790665\_1679091832.0962086/0/feign-core-10-2-0-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1596790665\_1679091832.0962086/0/feign-core-10-2-0-jar/META-INF/maven/io.github.openfeign/feign-core/pom.xml

## 1.466 feign-slf4j 10.2.0

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Found in path(s):

\* /opt/cola/permits/1596790713\_1679091830.2303884/0/feign-slf4j-10-2-0-sources-1-jar/META-

INF/maven/io.github.openfeign/feign-slf4j/pom.xml

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\* /opt/cola/permits/1596790713\_1679091830.2303884/0/feign-slf4j-10-2-0-sources-1-  
jar/feign/slf4j/Slf4jLogger.java

# 1.467 microsoft-hcsshim 0.9.4

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lib/erl/src/Makefile.am

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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 * for any reason the author might be held responsible for any consequences
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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///
```

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For t\_cl\_generator.cc

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-----  
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components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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 * modified form, subject only to the restrictions that (1) the author is
 * relieved from all responsibilities for any use for any purpose, and (2)
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 * be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
//
```

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//
//
```

-----  
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in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\* Designed and built with all the love in the world @twitter by @mdo and @fat.

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For t\_cl\_generator.cc

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```
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

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```
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*/
```

-----  
For lib/py/compat/win32/stdint.h

```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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```

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 json_parse.js
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```

```
*/
(By Douglas Crockford <douglas@crockford.com>)
```

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For lib/cpp/src/thrift/windows/SocketPair.cpp



```
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*/
```

```

For lib/py/compat/win32/stdint.h
```

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

-----  
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```
/*
json_parse.js
2015-05-02
```

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\*/

(By Douglas Crockford <douglas@crockford.com>)

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

/\* socketpair.c

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-----  
For lib/py/compat/win32/stdint.h

// ISO C9x compliantstdint.h for Microsoft Visual Studio

// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

//

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//
////////////////////////////////////
```

-----  
Codegen template

in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\*

\* Designed and built with all the love in the world @twitter by @mdo and @fat.

-----  
For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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# 1.473 open-telemetry-opentelemetry- collector-contrib 1.14.0

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*/
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```

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```
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in t\_html\_generator.h

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# 1.474 otel-exporters-otlp-otlptrace-otlptracehttp 1.14.0



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*/
(By Douglas Crockford <douglas@crockford.com>)
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For lib/cpp/src/thrift/windows/SocketPair.cpp

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-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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* /opt/cola/permits/1606680742_1679421779.1142166/0/shedlock-provider-jdbc-template-4-20-0-sources-1-jar/net/javacrumbs/shedlock/provider/jdbctemplate/JdbcTemplateStorageAccessor.java
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jar/net/javacrumbs/shedlock/spring/aop/LockingNotSupportedException.java
```

```

*
/opt/cola/permits/1606680749_1679421784.9342344/0/shedlock-spring-4-20-0-sources-1-
jar/net/javacrumbs/shedlock/spring/aop/RegisterDefaultTaskSchedulerPostProcessor.java
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* /opt/cola/permits/1606680749_1679421784.9342344/0/shedlock-spring-4-20-0-sources-1-
jar/net/javacrumbs/shedlock/spring/aop/AbstractLockConfiguration.java
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jar/net/javacrumbs/shedlock/spring/annotation/EnableSchedulerLock.java
* /opt/cola/permits/1606680749_1679421784.9342344/0/shedlock-spring-4-20-0-sources-1-
jar/net/javacrumbs/shedlock/spring/LockableTaskScheduler.java
* /opt/cola/permits/1606680749_1679421784.9342344/0/shedlock-spring-4-20-0-sources-1-
jar/net/javacrumbs/shedlock/spring/aop/SchedulerProxyScheduledLockAdvisor.java
*
/opt/cola/permits/1606680749_1679421784.9342344/0/shedlock-spring-4-20-0-sources-1-
jar/net/javacrumbs/shedlock/spring/aop/MethodProxyLockConfiguration.java
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jar/net/javacrumbs/shedlock/spring/aop/SchedulerLockConfigurationSelector.java

```

## 1.478 servo-aws 0.13.2

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 * <p/>
 * Amazon Web Services (AWS) related tags.
 */

```

Found in path(s):

```

* /opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/tag/aws/package-info.java

```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/aws/DataSourceTypeToAwsUnit.java
* /opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/aws/constants/Dimensions.java
* /opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/aws/constants/Namespace.java
*
/opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/aws/AwsServiceClients.java
* /opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/tag/aws/AwsInjectableTag.java
* /opt/cola/permits/1606680778_1679421722.339842/0/servo-aws-0-13-2-sources-1-
jar/com/netflix/servo/aws/AwsPropertyKeys.java
```

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```



\*/

Found in path(s):

\* /opt/cola/permits/1606680778\_1679421722.339842/0/servo-aws-0-13-2-sources-1-jar/com/netflix/servo/publish/cloudwatch/CloudWatchMetricObserver.java

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Found in path(s):

\* /opt/cola/permits/1606680778\_1679421722.339842/0/servo-aws-0-13-2-sources-1-jar/com/netflix/servo/aws/package-info.java

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Found in path(s):

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\* /opt/cola/permits/1606680778\_1679421722.339842/0/servo-aws-0-13-2-sources-1-jar/com/netflix/servo/publish/cloudwatch/package-info.java

# 1.479 shedlock-core 4.20.0

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Found in path(s):

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/annotation/NonNull.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/annotation/Nullable.java

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\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/LockRecordRegistry.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockConfigurationExtractor.java

\*

/opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/Utils.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/SimpleLock.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockManager.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockConfiguration.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockProvider.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/AbstractStorageAccessor.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockingTaskExecutor.java

\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/DefaultLockingTaskExecutor.java

\*

/opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/StorageBasedLockProvider.java  
\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/LockException.java  
\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/AbstractSimpleLock.java  
\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/support/StorageAccessor.java  
\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/SchedulerLock.java  
\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/DefaultLockManager.java  
\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockableRunnable.java  
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\* /opt/cola/permits/1606680771\_1679421724.9165468/0/shedlock-core-4-20-0-sources-1-jar/net/javacrumbs/shedlock/core/LockAssert.java

# 1.480 byte-buddy-agent 1.10.13

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# 1.481 enunciate-core-annotations 2.13.3

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```
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/Ignore.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/qname/XmlQNameEnumRef.java
*
/opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ResourceGroup.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/json/JsonSeeAlso.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/RequestHeaders.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ServiceContextRoot.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/Facets.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/Label.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/qname/XmlUnknownQNameEnumValue.java
*
/opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/Styles.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/TypeHint.java
```

```

* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/RequestHeader.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ResourceLabel.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ResponseHeaders.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/qname/XmlQNameEnumValue.java
*
/opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ResourceMethodSignature.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ResponseHeader.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/Warnings.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/ReadOnly.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/qname/XmlQNameEnum.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/Facet.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/soap/SoapBindingName.java
*
/opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/ResponseCode.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/Style.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/DocumentationExample.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/ClientName.java
* /opt/cola/permits/1606680787_1682270652.5751462/0/enunciate-core-annotations-2-13-3-sources-1-
jar/com/webcohesion/enunciate/metadata/rs/StatusCodes.java

```

# 1.482 aws-java-sdk-core 1.11.965

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Found in path(s):

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/handlers/AsyncHandler.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/StringMapBuilder.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/timers/package-info.java

\*

/\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/IdempotentUtils.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/DateTimeJsonSerializer.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/CapacityManager.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/handlers/IRequestHandler2.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/apache/client/impl/ConnectionFactoryAwareHttpClient.java

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/\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/log/InternalLogFactory.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheHttpClientFactory.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

jar/com/amazonaws/auth/CanHandleNullCredentials.java

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jar/com/amazonaws/protocol/json/internal/JsonProtocolMarshaller.java

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jar/com/amazonaws/internal/config/SignerConfig.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

jar/com/amazonaws/util/ImmutableMapParameter.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

jar/com/amazonaws/internal/config/JsonIndex.java

\*

/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java

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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/Protocol.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/config/Builder.java
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jar/com/amazonaws/regions/MetadataSupportedRegionFromEndpointProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/util/endpoint/DefaultRegionFromEndpointResolver.java
*
/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/RegionFromEndpointResolverAwareSigner.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/util/endpoint/RegionFromEndpointResolver.java
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jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/profile/internal/ProfileProcessCredentialsProvider.java
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/ProgressTracker.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/SyncProgressListener.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/profile/internal/Profile.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/request/Progress.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/DelegateSSLSocket.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/profile/package-info.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/DeliveryMode.java
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/request/ProgressSupport.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceLoader.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/ProgressInputStream.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/ProcessCredentialsProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/SdkInputStream.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/Releasable.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/RequestProgressInputStream.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/event/SDKProgressPublisher.java
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/event/ProgressEventFilter.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/event/ResponseProgressInputStream.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/SdkSocket.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/internal/SignerConstants.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/internal/AWS4SignerUtils.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/FIFOCache.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/internal/SignerKey.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/UnreliableTestConfig.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/profile/ProfilesConfigFile.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/Platform.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/UnreliableFilterInputStream.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceProvider.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/BinaryUtils.java  
\*

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/ImmutableRequest.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/SignerAsRequestSigner.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/SignableRequest.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/NumberUtils.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/JsonErrorUnmarshaller.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/client/HttpClientFactory.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/SDKGlobalTime.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/JsonResponseHandler.java

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- \* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/jmx/SdkMBeanRegistrySupport.java
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- /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/RegionAwareSigner.java
- \* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/SdkBufferedInputStream.java
- \* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/RegionUtils.java
- \* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/Base64Codec.java
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\* Interface for providing AWS region information. Implementations are free to use any strategy for

\* providing region information.

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/ResettableInputStream.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/AWSSessionCredentials.java  
\*  
/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/metrics/MetricAdmin.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/RequestClientOptions.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/jmx/JmxInfoProviderSupport.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/ClassLoaderHelper.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/ServiceClientHolderInputStream.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/BasicSessionCredentials.java  
\*  
/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/json/Jackson.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/annotation/package-info.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/conn/ssl/TLSProtocol.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/ReflectionMethodInvoker.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/VoidUnmarshaller.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/AWSCredentials.java

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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/AmazonClientException.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/HttpMethodName.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/SigningAlgorithm.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java

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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/partitions/PartitionMetadataProvider.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/partitions/model/Service.java  
\*  
/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/partitions/model/Partition.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/InMemoryRegionsProvider.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/partitions/model/CredentialScope.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/partitions/model/Region.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/partitions/model/Endpoint.java  
\*  
/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/RegionMetadataFactory.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/RegionMetadataProvider.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/SimpleTypeCborUnmarshaller.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/InMemoryRegionImpl.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/SdkIonGenerator.java



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jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
*
/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/partitions/PartitionsLoader.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/partitions/PartitionRegionImpl.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java
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jar/com/amazonaws/internal/auth/SignerProviderContext.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/util/NullResponseMetadataCache.java
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/auth/DefaultSignerProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/util/MetadataCache.java
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jar/com/amazonaws/adapters/types/TypeAdapter.java
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jar/com/amazonaws/internal/auth/SignerProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/auth/NoOpSignerProvider.java
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/v2/RetryPolicy.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/JsonContentTypeResolver.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/v2/MaxNumberOfRetriesCondition.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/profile/path/AwsDirectoryBasePathProvider.java  
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jar/com/amazonaws/client/builder/AwsAsyncClientBuilder.java  
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jar/com/amazonaws/protocol/json/internal/SimpleTypePathMarshallers.java  
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jar/com/amazonaws/transform/ListUnmarshaller.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/v2/FixedDelayBackoffStrategy.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/ProtocolMarshaller.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/regions/AwsProfileRegionProvider.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/MapUnmarshaller.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/profile/path/AwsProfileFileLocationProvider.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/internal/HeaderMarshallers.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/XMLWriter.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/v2/RetryOnStatusCodeCondition.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/StaticSignerProvider.java

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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/AbstractErrorUnmarshaller.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/internal/JsonMarshallerContext.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/client/AwsAsyncClientParams.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/MarshallingInfo.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/v2/OrRetryCondition.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/profile/internal/ProfileAssumeRoleCredentialsProvider.java

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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/client/ClientHandlerParams.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/TimingInfoFullSupport.java

\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/V2CompatibleBackoffStrategyAdapter.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/regions/AwsRegionProviderChain.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/client/ClientExecutionParams.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/http/AwsErrorResponseHandler.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/retry/v2/BackoffStrategy.java
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jar/com/amazonaws/annotation/SdkProtectedApi.java
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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jar/com/amazonaws/annotation/GuardedBy.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/annotation/SdkTestInternalApi.java
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* permissions and limitations under the License.
*/
/**
* Interface for providing AWS credentials. Implementations are free to use any
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* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
*/
```

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/IonFactory.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/protocol/json/IonParser.java

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/metrics/ServiceLatencyProvider.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/config/HostRegexToRegionMapping.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/apache/Utils/HttpContextUtils.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/RetryUtils.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/waiters/WaiterTimedOutException.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/AmazonWebServiceRequest.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/SignerFactory.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-

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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/transform/StandardErrorUnmarshaller.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/http/impl/client/SdkHttpRequestRetryHandler.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/metrics/ThroughputMetricType.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/http/conn/ClientConnectionRequestFactory.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
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jar/com/amazonaws/waiters/AcceptorPathMatcher.java  
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jar/com/amazonaws/auth/policy/actions/package-info.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/http/HttpResponseHandler.java  
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jar/com/amazonaws/waiters/HttpFailureStatusAcceptor.java  
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jar/com/amazonaws/auth/policy/conditions/ConditionFactory.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/arn/ArnResource.java  
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jar/com/amazonaws/ApacheHttpClientConfig.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/metrics/package-info.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/metrics/MetricType.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/auth/policy/resources/package-info.java  
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jar/com/amazonaws/http/impl/client/HttpRequestNoRetryHandler.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-  
jar/com/amazonaws/monitoring/CsmConfiguration.java



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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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jar/com/amazonaws/http/protocol/SdkHttpRequestExecutor.java
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jar/com/amazonaws/monitoring/StaticCsmConfigurationProvider.java
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jar/com/amazonaws/transform/JsonUnmarshallerContext.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/ClientConfiguration.java
*
/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/waiters/MaxAttemptsRetryStrategy.java
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/AbstractFileTlsKeyManagersProvider.java  
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/util/XpathUtils.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/metrics/AwsSdkMetrics.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/http/RepeatableInputStreamRequestEntity.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/AWS3Signer.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/waiters/WaiterAcceptor.java  
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/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/retry/PredefinedRetryPolicies.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/policy/package-info.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/policy/Action.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/transform/JsonUnmarshallerContextImpl.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/handlers/CredentialsRequestHandler.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/waiters/WaiterParameters.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/config/InternalConfig.java  
\*  
/opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/auth/policy/Policy.java

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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/EC2ResourceFetcher.java
*
/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/InstanceMetadataServiceResourceFetcher.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/ContainerCredentialsProvider.java
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/CustomBackoffStrategy.java
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/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/HandlerContextAware.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/internal/CRC32MismatchException.java
*
/opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java
* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
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* /opt/cola/permits/1607096356_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-
jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
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\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/http/ErrorCodeParser.java  
\* /opt/cola/permits/1607096356\_1682268921.8268547/0/aws-java-sdk-core-1-11-965-sources-1-jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java

# 1.483 jmespath-java 1.11.965

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\* /opt/cola/permits/1607096364\_1682271061.5678103/0/jmespath-java-1-11-965-sources-jar/META-INF/maven/com.amazonaws/jmespath-java/pom.xml

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\* /opt/cola/permits/1607096364\_1682271061.5678103/0/jmespath-java-1-11-965-sources-jar/com/amazonaws/jmespath/NumericComparator.java

\* /opt/cola/permits/1607096364\_1682271061.5678103/0/jmespath-java-1-11-965-sources-jar/com/amazonaws/jmespath/JmesPathFilter.java

\*

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\* /opt/cola/permits/1607096364\_1682271061.5678103/0/jmespath-java-1-11-965-sources-jar/com/amazonaws/jmespath/JmesPathEvaluationVisitor.java

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# 1.484 aws-java-sdk-cloudwatch 1.11.965

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jar/com/amazonaws/services/cloudwatch/model/transform/GetDashboardRequestMarshaller.java



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* /opt/cola/permits/1607096380_1679459383.3529358/0/aws-java-sdk-cloudwatch-1-11-965-sources-1-
jar/com/amazonaws/services/cloudwatch/model/InvalidFormatException.java
```

# 1.485 aws-java-sdk-autoscaling 1.11.965

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\* /opt/cola/permits/1607096372\_1682268824.7577314/0/aws-java-sdk-autoscaling-1-11-965-sources-1-jar/com/amazonaws/services/autoscaling/model/ResourceContentionException.java

\* /opt/cola/permits/1607096372\_1682268824.7577314/0/aws-java-sdk-autoscaling-1-11-965-sources-1-jar/com/amazonaws/services/autoscaling/model/DeleteScheduledActionResult.java

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\* /opt/cola/permits/1607096372\_1682268824.7577314/0/aws-java-sdk-autoscaling-1-11-965-sources-1-jar/com/amazonaws/services/autoscaling/model/MetricStatistic.java

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# 1.486 utils 0.0.0-20230220204549- a5ecb0141aa5

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# 1.487 aws-aws-sdk-go 1.17.6

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

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# 1.488 aws-aws-sdk-go-v2-internal-endpoints

## 2.4.24

### 1.488.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
```

```

Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {

```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

```

with:
 path: sdkbase
 ref: ${ { github.base_ref } }
- name: Checkout this ref
 uses: actions/checkout@v2
with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
 uses: actions/setup-python@v2
with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```



```

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.

```

CheckoutType types.CheckoutType

// Allowed license entitlements.

EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.

Expiration \*string

// Date and time at which the license checkout is issued.

IssuedAt \*string

// Amazon Resource Name

(ARN) of the checkout license.

LicenseArn \*string

// License consumption token.

LicenseConsumptionToken \*string

// Node ID.

NodeId \*string

// Signed token.

SignedToken \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
```

```
 if err != nil {
```

```
 return err
```

```
 }
```

```
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
```

```
 if err != nil {
```

```
 return err
```

```
 }
```

```
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
```

```
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
```

```
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
```

```
 }
```

```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This

```

```

member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```



```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

```

```

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```



```

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Creates a license.
```

```
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
```

```

params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type CreateLicenseInput struct {

```

```

// License beneficiary.

```

```

//

```

```

// This member is required.

```

```

Beneficiary *string

```

```

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of

```

```

// the request.

```

```

//

```

```

// This member is required.

```

```

ClientToken *string

```

```

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.

```

```

//

```

```

// This member is required.

```

```

ConsumptionConfiguration *types.ConsumptionConfiguration

```

```

// License entitlements.

```

```

//

```

```

// This member is required.

```

```

Entitlements []types.Entitlement

```

```

// Home Region for the license.

```

```

//

```

```

// This member is required.

```

```

HomeRegion *string

```

```

// License issuer.

```

```

//

```

```

// This member is required.

```



```

Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense {}, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),

```

```

middleware.Before); err != nil {
 return
 err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,

```

```

c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:

```

```

//
- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```



```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
}

```

## 1.489 aws-aws-sdk-go-v2-internal-configsources 1.1.30

### 1.489.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {

```

```

 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

```

- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt -> targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
 uses: actions/setup-python@v2
 with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {

```

```

return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil

```



```

}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.

```

```

//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```

```

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
 ..func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
 c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 // member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

```

```

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (

```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```



```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists the licenses for your account.

```

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {

```

```

if params == nil {
 params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack);

```

```

err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
 c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```
out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
```

```
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
```

```
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
```

```
 //
```

```
 // This member is required.
```

```
 DigitalSignatureMethod types.DigitalSignatureMethod
```

```
 // License entitlements. Partial checkouts are not supported.
```

```
 //
```

```
 // This member is required.
```

```
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
```

```
 // consumption configuration.
```

```
 //
```

```
 // This member is required.
```

```
 LicenseArn *string
```

```
 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata
```

```
 // Node ID.
```

```
 NodeId *string
```

```
 noSmithyDocumentSerde
```

```
}
```

```
type CheckoutBorrowLicenseOutput struct {
```

```
 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata
```

```
 // Allowed license entitlements.
```

```
 EntitlementsAllowed
```

```

[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```



```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure

```

```
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
```

```

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```

```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
..func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
- ProductSKU
// - Status
// - Fingerprint
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.

```

```

LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```

```
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
```

# 1.490 aws-aws-sdk-go-v2 1.9.24

## 1.490.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {
```



```

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)

```

```
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan
```

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

```

python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.

```

```

//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.

```

```

//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```



```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 }
 err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {

```

```

if params == nil {
 params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)

```



```

out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - Beneficiary
// - ProductSKU
// - Fingerprint
//
// - Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you
```

```
 // provide to ensure the idempotency of
```

```
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

```

```

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.

```



Status types.LicenseStatus

// License version.

Version \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
```

```
if err != nil {
```

```
 return err
```

```
}
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
```

```
if err != nil {
```

```
 return err
```

```
}
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
```

```
}
```

```
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
```

```
}
```

```
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
```

```
err != nil {
```

```
 return err
```

```
}
```

```
if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
```

```
}
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
```

```
}
```

```
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
```

```
}
```

```
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
```

```
}
```

```
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
```

```
}
```

```
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
```

```
}
```

```

if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

```

```

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

```

# 1.491 spring-jdbc 5.3.26

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# 1.503 opencontainers-selinux 1.11.0

## 1.503.1 Available under license :

Apache License

Version 2.0, January 2004

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## 1.504 aws-aws-sdk-go-v2 1.12.24

## 1.504.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string
```

```

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

# ScanCode

- name: Self-configure scancode

working-directory: ./scancode-toolkit

run: ./scancode --help

- name: Run Scan code on target

run: cat targetFiles.txt | while read filename; do echo ./sdkbase/\$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short\_name | sort | uniq >> old-licenses.txt

```

- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
 # compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
 are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
 c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

```

```

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {

```



```

 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```



```

}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary

```

```

// - ProductSKU
// - Fingerprint
//
- Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
if params == nil {
params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the

```

```

license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
}
}

```



OperationName: "DeleteLicense",

}

}

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```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

```

```

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```



```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.

```

```

HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {

```

```

if params == nil {
 params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return
 err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

## 1.505 aws-aws-sdk-go-v2 1.18.16

### 1.505.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"

```



```

)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

```

python-version: [3.9]

steps:
- name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${ github.base_ref }
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
${ github.sha } > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ matrix.python-version }
 uses: actions/setup-python@v2
 with:
 python-version: ${ matrix.python-version }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```
import (
 "context"
```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {

```

```

 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

type

```
CheckoutLicenseInput struct {
```

```
// Checkout type.
```

```
//
```

```
// This member is required.
```

```
CheckoutType types.CheckoutType
```

```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
```

```
//
```

```
// This member is required.
```

```
ClientToken *string
```

```
// License entitlements.
```

```
//
```

```
// This member is required.
```

```
Entitlements []types.EntitlementData
```

```
// Key fingerprint identifying the license.
```

```
//
```

```
// This member is required.
```

```
KeyFingerprint *string
```

```
// Product SKU.
```

```
//
```

```
// This member is required.
```

```
ProductSKU *string
```

```
// License beneficiary.
```

```
Beneficiary *string
```

```
// Node ID.
```

```
NodeId *string
```

```
noSmithyDocumentSerde
```



```

}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 // (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

```

```

// License version.
Version
*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
}

```



```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.

```

```

NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

```

```

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```

)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.

```

```

CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 // the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

```



```

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata

```

```

return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {

```

```

return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
}

```

## 1.506 aws-aws-sdk-go-v2-internal-ini 1.3.31

### 1.506.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana

// Enterprise incurs additional fees. For more information, see Upgrade a

// workspace to Grafana Enterprise (<https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html>)

// .

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
:= result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if

```

```

err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```



```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

```

 fetch-depth: 0
 - name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
 - name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
 - name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
 - name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
 - name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
 - name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
 - name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
 - name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 }
 err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
}

```

```

if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```



```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
..func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

```

```

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.

```

License \*types.License

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.

```

NextToken \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}
```



```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
```

```

(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Creates a license.
```

```
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }
}
```

```
result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
```

```

return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

```

```

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed

```

```

[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```



```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
..func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
- ProductSKU
// - Status
// - Fingerprint
// - IssuerName

```

```

// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

```

## 1.507 aws-aws-sdk-go-v2-service-ssooidc

### 1.14.5

#### 1.507.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
if params == nil {
params = &AssociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out

```

```

:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
}

```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

```

with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)

```



```

out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{

```

```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 }
 err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
 ..func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
 c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //

```

```

// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {

```



```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Lists the licenses for your account.
```

```

func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}

```

```

}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```



```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {
```

```
// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
```



```

ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);

```

```

err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you

```

```

provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
 ..func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
 c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

```

```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
if
err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```



```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}

```

```
}
```

# 1.508 aws-aws-sdk-go-v2 1.13.16

## 1.508.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
```

```
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
```

```
// .
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
 c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out
```

```
 := result.(*AssociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type AssociateLicenseInput struct {
```

```
 // The type of license to associate with the workspace.
```

```
 //
```

```
 // This member is required.
```

```
 LicenseType types.LicenseType
```

```

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}
```

AWS SDK for Go

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name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

# ScanCode

- name: Self-configure scancode

working-directory: ./scancode-toolkit

```

run: ./scancode --help
- name: Run Scan code on target
run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
if params == nil {
params = &CheckInLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

```

```

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil
{
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```



```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

```

```

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.

```

```

func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {

```

```

err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.

```

```

func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
 params = &GetLicenseInput{}
}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```



```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);

```

```

err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 // - Beneficiary
 // - ProductSKU
 // - Fingerprint
 //
 // - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //

```

```

// This member is required.
LicenseArn *string

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{ }
 }
}
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
```

```

//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

```

```

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {

```

```

 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```



```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

```

```

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // - ProductSKU
 // - Status
 // - Fingerprint
 // - IssuerName
 // - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.

```

```

NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if
 err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

# 1.509 otel-exporters-otlp-otlptrace-otlptracegrpc 1.14.0

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lib/erl/src/Makefile.am



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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4  
components:

```
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
//
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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\* /opt/cola/permits/1681297276\_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/META-INF/maven/org.xipki/servlet-api/pom.xml

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## 1.533 opencontainers-image-spec 1.1.0-rc3

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## 1.536 py3-setuptools 65.6.0-r0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.



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# 1.546 docker-cli-docs-tool 0.6.0

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# 1.548 opencontainers-runtime-spec 1.1.0-rc.2

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# 1.551 pyparsing 3.1.1

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# 1.553 containerd-ttrpc 1.1.2

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// SPDX Document for version 2.3 of the spec.

type OtherLicense struct {

    // 10.1: License Identifier: "LicenseRef-[idstring]"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseIdentifier string `json:"licenseId"`

    // 10.2: Extracted Text

    // Cardinality: conditional (mandatory, one) if there is a

    //         License Identifier assigned

    ExtractedText string `json:"extractedText"`

    // 10.3: License Name: single line of text or "NOASSERTION"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseName string `json:"name,omitempty"`

    // 10.4: License Cross Reference

    // Cardinality: conditional (optional, one or many) if license

    //         is not on SPDX License List

    LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

    //

    // 10.5: License Comment

    // Cardinality: optional, one

    LicenseComment string `json:"comment,omitempty"`

    }

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// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.2 of the spec.

```
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseIdentifier string `json:"licenseId"`
```

```
 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 // License Identifier assigned
 ExtractedText string `json:"extractedText"`
```

```
 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 // on SPDX License List
 LicenseName string `json:"name,omitempty"`
```

```
 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 // is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
```

```
 //
 // 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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[localtime.go](https://github.com/pelletier/go-toml), [localtime\\_test.go](https://github.com/pelletier/go-toml):

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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```

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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```

```
package spec
```

```
import "testing"
```

```

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}

```

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# 1.573 x-text 0.13.0

## 1.573.1 Available under license :

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## 1.574 aws-aws-sdk-go-v2 1.16.16

### 1.574.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
..func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{ }
 }
}
```

```
result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
```

```

c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return
 }
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license for offline use.

```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);

```



```

err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //

```

```

// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

```

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

```
- name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.

```

```

//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```



```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.

```

```

func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {

```

```

if params == nil {
 params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.

```



```

EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{

```

```

Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //

```

```

//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 }
}

```

```

 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

```

```

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.

```

Workspace \*types.WorkspaceDescription

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.575 cloudflare-cfssl 0.0.0-20180323000720-5d63dbd981b5

## 1.575.1 Available under license :

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# 1.576 aws-aws-sdk-go-v2-internal-endpoints

## 2.4.14

### 1.576.1 Available under license :

```
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```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{ }
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```



```

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
}

```

```

return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

```

```

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```

 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

```

```

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```



```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target

```

```

uses: actions/checkout@v2
with:
 path: sdkbase
 ref: ${ { github.base_ref } }
- name: Checkout this ref
uses: actions/checkout@v2
with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ { github.event.pull_request.base.sha } }
${ { github.sha } } > refDiffFiles.txt
- name: Get Target Files
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2
with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ { matrix.python-version } }
uses: actions/setup-python@v2
with:
 python-version: ${ { matrix.python-version } }
ScanCode
- name: Self-configure scancode
working-directory: ./scancode-toolkit
run: ./scancode --help
- name: Run Scan code on target
run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.

```

```

//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.

```

ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {

```

```

 params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```



```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
 }
}

AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

```



```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```

func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.577 docker-libkv 0.2.2-0.20211217103745-e480589147e3

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.583 resenje.org-singleflight 0.3.0

## 1.583.1 Available under license :

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# 1.584 bsphere-le\_go 0.0.0-20200109081728-fc06dab2caa8

## 1.584.1 Available under license :

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# 1.585 aws-aws-sdk-go-v2 1.9.14

## 1.585.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
```



```

...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
 params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListReceivedLicensesInput struct {

```

```

 // Filters to scope the results. The following filters are supported:

```

```

 //

```

```

 //

```

```

 *

```

```

 // ProductSKU

```

```

 //

```

```

 // * Status

```

```

 //

```

```

 // * Fingerprint

```

```

 //

```

```

 // * IssuerName

```

```

 //

```

```

 // * Beneficiary

```

```

 Filters []types.Filter

```

```

 // Amazon Resource Names (ARNs) of the licenses.

```

```

 LicenseArns []string

```

```

 // Maximum number of results to return in a single call.

```

```

 MaxResults *int32

```

```

 // Token for the next set of results.

```

```

 NextToken *string

```

```

 noSmithyDocumentSerde

```

```

}

```

```

type ListReceivedLicensesOutput struct {

```

```

 // Received license details.

```

Licenses []types.GrantedLicense

// Token for the next set of results.

NextToken \*string

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}
```

```

}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

```

```

// Node ID.
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,

```



```

options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}

```

```

}
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${{ github.base_ref }}
 - name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
 - name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
 ${{ github.sha }} > refDiffFiles.txt
 - name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
 - name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
 - name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
 # ScanCode
 - name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
 - name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
 - name: Run Scan code on pr ref

```

```

run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
}

```

```
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata
```

```

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}

```

```

}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

```

```

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```



```

return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Checks out the specified license.

```

func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
 params = &CheckoutLicenseInput{}
}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}

```

```

return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//

```



```

// *
// Beneficiary
//
// * ProductSKU
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
if params == nil {
params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

```

```

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

}  
}

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```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde

```

```

}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.586 ishidawataru-sctp 0.0.0- 20230406120618-7ff4192f6ff2

# 1.586.1 Available under license :

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# 1.587 aws-aws-sdk-go-v2-internal-ini 1.3.21

## 1.587.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
```

```
 if params == nil {
 params = &ListReceivedLicensesInput{} }
}
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
```

```
 if err != nil {
 return nil, err
 }
}
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {
```

```
 // Filters to scope the results. The following filters are supported:
```

```
 //
```

```
 //
```

```
 *
```

```
 // ProductSKU
```

```
 //
```

```
 // * Status
```

```
 //
```

```
 // * Fingerprint
```

```

//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
}

```



```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

```

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

```

${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,

```

```

c.addOperationCreateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //

```

```

// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}

```



```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata

```

```

return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

```

```

// License version.
Version
*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.

```

```

Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

```



```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))

```

```

(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

```

```

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Deletes the specified license.

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {

```

```

params = &DeleteLicenseInput{
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
 c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
```

```

}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}
}

```

# 1.588 aws-aws-sdk-go-v2-service-ssooidc

## 1.13.2

### 1.588.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists received licenses.

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }
}

```



```
out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type ListReceivedLicensesInput struct {
```

```
 // Filters to scope the results. The following filters are supported:
```

```
 //
```

```
 //
```

```
 *
```

```
 // ProductSKU
```

```
 //
```

```
 // * Status
```

```
 //
```

```
 // * Fingerprint
```

```
 //
```

```
 // * IssuerName
```

```
 //
```

```
 // * Beneficiary
```

```
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
```

```
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32
```

```
 // Token for the next set of results.
```

```
 NextToken *string
```

```
 noSmithyDocumentSerde
```

```
}
```

```
type ListReceivedLicensesOutput struct {
```

```
 // Received license details.
```

```
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
```

```
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
```

```
}
```

```

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return
 }
 err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license for offline use.

```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

```

```

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {

```

```

return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

```

```

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
if params == nil {
params = &CheckInLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary

```

```

*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}

```



```

}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:

```

```

matrix:
 python-version: [3.9]

steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${ github.base_ref }
 - name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
 - name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
 ${{ github.sha }} > refDiffFiles.txt
 - name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
 - name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
 - name: Set up Python ${ matrix.python-version }
 uses: actions/setup-python@v2
 with:
 python-version: ${ matrix.python-version }
 # ScanCode
 - name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
 - name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
 - name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
 # compare
 - name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
 are the same. Success."; exit 0; fi
 // Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (

```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.

```

```

//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

```

```

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {

```



```

return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.

```

```

func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,

```

```

c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,

```

```

options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err

```

```

!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

```



```

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

```

```

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```

)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
```

```

err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.589 buildkit 0.11.7-0.20230723230859-616c3f613b54

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package v2\_3

// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.3 of the spec.

type OtherLicense struct {

    // 10.1: License Identifier: "LicenseRef-[idstring]"

    // Cardinality: conditional (mandatory, one) if license is not

    //       on SPDX License List

    LicenseIdentifier string `json:"licenseId"`

```

// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}

```

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```

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// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
// 10.1: License Identifier: "LicenseRef-[idstring]"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
// 10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}

```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//
///
```

-----  
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

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For t\_cl\_generator.cc

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## 1.590 aws-aws-sdk-go-v2 1.11.20

### 1.590.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
if params == nil {
params = &CheckInLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
return nil, err
}
}

```



```

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```

```
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
```

name: License Scan

on: [pull\_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${{ github.base\_ref }}

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${{ github.event.pull\_request.base.sha }}

\${{ github.sha }} > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${{ matrix.python-version }}

uses: actions/setup-python@v2

with:

python-version: \${{ matrix.python-version }}

# ScanCode

- name: Self-configure scancode

working-directory: ./scancode-toolkit

run: ./scancode --help

- name: Run Scan code on target

```

run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure

```

```
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
```

```

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

```



```

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {

```

```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Checks out the specified license.

```

func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
}

```

```

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```



```

 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:
//
// *
// Beneficiary
//
// * ProductSKU
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //

```

```

// This member is required.
LicenseArn *string

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
}

```

```

if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
}
}

```

```
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
```

```
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &AssociateLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
```

```
 c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out
```

```
 := result.(*AssociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type AssociateLicenseInput struct {
```

```
 // The type of license to associate with the workspace.
```

```
 //
```

```
 // This member is required.
```

```
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to associate the license with.
```

```
 //
```

```
 // This member is required.
```

```
 WorkspaceId *string
```

```

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.591 moby-pubsub 1.0.0

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# 1.592 golang-set 2.3.0

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# 1.593 fernet-fernet-go 0.0.0-20211208181803-9f70042a33ee

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# 1.594 containerd 1.6.22

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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# 1.596 aws-aws-sdk-go-v2-internal-configsources 1.1.20

## 1.596.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
```

```

//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil

```



```

}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.
//

```

```

// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (

```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

```

on: [pull\_request]

jobs:

licensescan:

```

name: License Scan
runs-on: ubuntu-latest
strategy:
matrix:
python-version: [3.9]

```

steps:

```

- name: Checkout target
uses: actions/checkout@v2
with:
path: sdkbase
ref: ${ github.base_ref }
- name: Checkout this ref
uses: actions/checkout@v2
with:
path: new-ref
fetch-depth: 0

```

```

- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Creates a license.
```

```

func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }
}

```



```

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

```

```

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return

```

```

err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
 params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);

```

```

err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}

```

```

 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //

```

```

// This member is required.
LicenseArn *string

// License version.
Version
*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}

```



```

}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks out the specified license.
```

```
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
```

```
(*CheckoutLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckoutLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
```

```
 c.addOperationCheckoutLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type CheckoutLicenseInput struct {
```

```
 // Checkout type.
```

```
 //
```

```
 // This member is required.
```

```
 CheckoutType types.CheckoutType
```

```
 // Unique, case-sensitive
```

```
 identifier that you provide to ensure the idempotency of
```

```
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//

```

```

Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

```

```

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Deletes the specified license.
```



```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
```

```
// to Grafana Enterprise
```

```
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
```

```
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }
}
```

```
result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
```



```

if err != nil {
 return nil, err
}

out
:= result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
 if
 err != nil {
 return err
 }
}

```

```

if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}
}

```

# 1.597 aws-aws-sdk-go-v2-service-cloudwatchlogs 1.15.17

## 1.597.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}
}

```

```

}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```
}
```

```
func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return
 }
 err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
```

```

nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks out the specified license for offline use.

```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
 params = &CheckoutBorrowLicenseInput{}
}
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
}

```



```

}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
if params == nil {
params = &CheckInLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string
}

```

```

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:

```

```

name: License Scan
runs-on: ubuntu-latest
strategy:
 matrix:
 python-version: [3.9]

steps:
- name: Checkout target
 uses: actions/checkout@v2
 with:
 path: sdkbase
 ref: ${ github.base_ref }
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${ github.event.pull_request.base.sha }
${ github.sha } > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${ matrix.python-version }
 uses: actions/setup-python@v2
 with:
 python-version: ${ matrix.python-version }
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.

```

ConsumptionConfiguration \*types.ConsumptionConfiguration

// License entitlements.

//

// This member is required.

Entitlements []types.Entitlement

// Home Region for the license.

//

// This member is required.

HomeRegion \*string

// License issuer.

//

// This member is required.

Issuer \*types.Issuer

// License name.

//

// This member is required.

LicenseName \*string

// Product name.

//

// This member is required.

ProductName \*string

// Product SKU.

//

// This member is required.

ProductSKU \*string

// Date and time range during which the license is valid, in ISO8601-UTC format.

//

// This member is required.

Validity \*types.DatetimeRange

//

Information about the license.

LicenseMetadata []types.Metadata

noSmithyDocumentSerde

}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.

LicenseArn \*string

```

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```



```

 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
params = &DisassociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This
member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{}
}
}

```

```

}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Checks out the specified license.

```

func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

```

```

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

```

```

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil

```

```

}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData
}

```



```

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 }
}

```

```

 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //

```

```

* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 }
}

```

```

 OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde

```

```

}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}

```

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```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```

"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
}

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.598 google-golang-org-genproto 0.0.0-20220706185917-7780775163c4

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# 1.600 woodstox 6.4.0

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\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java

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*
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\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-  
jar/io/netty/handler/codec/http/HttpScheme.java

\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-  
jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/rtsp/RtspDecoder.java
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jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/CookieUtil.java
*
/opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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jar/io/netty/handler/codec/http/cookie/package-info.java
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/opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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- \*
- /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
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- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
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- \*
- /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
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- \*
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- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java

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jar/io/netty/handler/codec/http/cors/package-info.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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/opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java

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\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java  
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- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
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- /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java
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- \* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
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\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java  
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/opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java  
\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java  
\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java  
\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java  
\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java  
\* /opt/cola/permits/1813842742\_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java  
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* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
* /opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
*
/opt/cola/permits/1813842742_1696535021.6582098/0/netty-codec-http-4-1-99-final-sources-
jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
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## 1.606 netty-transport-native-unix-common

### 4.1.99.Final

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* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/netty_unix_jni.h
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* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/netty_unix.c
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/netty_unix.h
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jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/io/netty/channel/unix/GenericUnixChannelOption.java
*
```

/opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java

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\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

\*

/opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java

\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_limits.c

\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/Limits.java

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\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_util.c

\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_limits.h

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\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java  
\*  
/opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/Socket.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/Errors.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_filedescriptor.h  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_filedescriptor.c  
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/opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_socket.c  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_errors.c  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/FileDescriptor.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/netty\_unix\_errors.h  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java  
\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java  
\*  
/opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/UnixChannel.java

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jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/netty_unix_buffer.c
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/opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/netty_unix_buffer.h
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java
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jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

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\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/Unix.java

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/opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/package-info.java

\* /opt/cola/permits/1813842703\_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

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* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/io/netty/channel/unix/DomainDatagramPacket.java
*
/opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/io/netty/channel/unix/DomainDatagramChannel.java
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1813842703_1696535018.0704107/0/netty-transport-native-unix-common-4-1-99-final-sources-
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/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

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\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java  
\*

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jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java  
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jar/io/netty/handler/codec/socks/SocksAddressType.java  
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jar/io/netty/handler/codec/socks/SocksMessageType.java  
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jar/io/netty/handler/codec/socksx/SocksVersion.java  
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\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/package-info.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java  
\*  
/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java

\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java  
\*

/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java  
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/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java

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\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-

jar/io/netty/handler/codec/socks/SocksAuthResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/package-info.java  
\*  
/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
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/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksInitResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java  
\*  
/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-  
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java  
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/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java  
\*  
/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/package-info.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java  
\*  
/opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java  
\* /opt/cola/permits/1813842796\_1696535034.4779835/0/netty-codec-socks-4-1-99-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java

## 1.608 netty-handler-proxy 4.1.99.Final

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```

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```
* /opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/ProxyConnectException.java
*
/opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1813842829_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
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\* /opt/cola/permits/1813842829\_1696535025.794817/0/netty-handler-proxy-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

# 1.609 netty-codec 4.1.99.Final

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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/Headers.java

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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/CharSequenceValueConverter.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/DefaultHeadersImpl.java

\*

/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/ValueConverter.java

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*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/
```

Found in path(s):

```
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
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```
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
*
/opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
```

```
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
*
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```
/opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
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```
*/
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```
*/
```

```
/**
```

```
* Enumeration of supported Base64 dialects.
```

```
* <p>
```

```
* The internal lookup tables in this class has been derived from
```

```
* Robert
Harder's Public Domain
```

```
* Base64 Encoder/Decoder.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
```

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```
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/ZstdOptions.java
*
 /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/GzipOptions.java
*
 /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/compression/BrotliEncoder.java
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```
/*
```

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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
* <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>

```

```

*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into

```



```

* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 +
LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\*

/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\*

/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java

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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DateFormatter.java  
\*  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-

jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/package-info.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/xml/package-info.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-  
jar/io/netty/handler/codec/compression/ZlibWrapper.java

\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/CodecException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/string/package-info.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\*

/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/package-info.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/package-info.java

\*

/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/bytes/package-info.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

\*

/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-

jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
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\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
\* /opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
\*  
/opt/cola/permits/1813842641\_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

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* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml
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* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/SnappyOptions.java
* /opt/cola/permits/1813842641_1696535014.3961658/0/netty-codec-4-1-99-final-sources-jar/io/netty/handler/codec/compression/EncoderUtil.java
```



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jar/io/netty/util/internal/CleanerJava6.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/concurrent/FastThreadLocalThread.java
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* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/META-
INF/maven/io.netty/netty-common/pom.xml
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jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/IntObjectMap.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/ByteCollections.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/LongCollections.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/ShortCollections.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/ByteObjectHashMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
```

jar/io/netty/util/collection/IntObjectHashMap.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java  
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* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/BooleanSupplier.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ResourceLeakTracker.java
```

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/MacAddressUtil.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/IntSupplier.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java  
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/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java

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Found in path(s):

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Found in path(s):

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\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/ClassInitializerUtil.java

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 </repository>
</distributionManagement>

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<inceptionYear>2013</inceptionYear>

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 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
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 </license>
</licenses>

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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

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 <developer>
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 </developer>
 <developer>
 <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
 <url>https://github.com/RichardWarburton</url>
 </developer>

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</developer>
<developer>
 <url>https://github.com/kay</url>
</developer>
<developer>
 <url>https://github.com/franz1981</url>
</developer>
</developers>

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</prerequisites>

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<junit.version>4.12</junit.version>
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</properties>
</project>

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#### Found

in path(s):

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
- \*
- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
- \*
- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
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- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpMCArrayQueue.java
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- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedListNode.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
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\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java  
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\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
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\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java  
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```
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```
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/NettyRuntime.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/SuppressForbidden.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/PriorityQueue.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/ObjectCleaner.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/EmptyPriorityQueue.java
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* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/ThreadLocalRandom.java
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```
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jar/io/netty/util/internal/ObjectPool.java
```

```
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/ThreadExecutorMap.java
```

```
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
```

```
*
*/
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/svm/package-info.java
```

```
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
```

jar/io/netty/util/internal/Hidden.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java  
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jar/io/netty/util/Mapping.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/IntegerHolder.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/concurrent/FastThreadLocal.java  
\*  
/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/concurrent/PromiseNotifier.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/NativeLibraryLoader.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/ThreadDeathWatcher.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/DomainNameMapping.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/concurrent/PromiseAggregator.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/AsciiString.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/internal/InternalThreadLocalMap.java

\*

/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/ResourceLeakHint.java

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\*

/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java

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jar/io/netty/util/ByteProcessor.java

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jar/io/netty/util/internal/MathUtil.java

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jar/io/netty/util/internal/PriorityQueueNode.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/concurrent/ThreadProperties.java

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jar/io/netty/util/internal/LongCounter.java

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jar/io/netty/util/HashingStrategy.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/DomainMappingBuilder.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/internal/DefaultPriorityQueue.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-

jar/io/netty/util/AsyncMapping.java

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- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/PlatformDependent.java
- \*
- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/AttributeKey.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/EventExecutor.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/TimerTask.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/package-info.java
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- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/NetUtil.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/AttributeMap.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/StringUtil.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/Signal.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java

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/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/Timer.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/package-info.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/DefaultAttributeMap.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/IllegalReferenceCountException.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/AbstractConstant.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/concurrent/EventExecutorGroup.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/Timeout.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
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* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
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* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
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* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/Attribute.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/concurrent/BlockingOperationException.java
*
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/CharsetUtil.java
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- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/logging/package-info.java
- \*
- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/EmptyArrays.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/Promise.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
- \*
- /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
- \* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ConstantPool.java

\*  
/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ReferenceCountUtil.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/PlatformDependent0.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/Future.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ResourceLeakException.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/ConcurrentSet.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ResourceLeak.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ReferenceCounted.java  
\*  
/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/Recycler.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/ThreadPoolExecutor.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/ResourceLeakDetector.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/Version.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/AbstractReferenceCounted.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java  
\*  
/opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/FutureListener.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/internal/PendingWrite.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/package-info.java  
\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java  
\*

```
/opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/concurrent/ImmediateExecutor.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/concurrent/PromiseTask.java
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```
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/NetUtilInitializations.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/NetUtilSubstitutions.java
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

Found in path(s):

```
* /opt/cola/permits/1813842694_1696535004.5436351/0/netty-common-4-1-99-final-sources-jar/META-
```

INF/services/reactor.blockhound.integration.BlockHoundIntegration

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\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/ByteProcessorUtils.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/ResourcesUtil.java

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\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/concurrent/FastThreadLocalRunnable.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-  
jar/io/netty/util/internal/CleanerJava9.java

\* /opt/cola/permits/1813842694\_1696535004.5436351/0/netty-common-4-1-99-final-sources-



# 1.611 netty-resolver 4.1.99.Final

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\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

\*

/opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/HostsFileParser.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/AddressResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/InetNameResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

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\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/NameResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

\*

/opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1813842688\_1696534989.467266/0/netty-resolver-4-1-99-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

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```
*/opt/cola/permits/1813842688_1696534989.467266/0/netty-resolver-4-1-99-final-sources-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
```

## 1.612 netty-transport 4.1.99.Final

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.
 *
 *

Sub-types

 */
```

\* <p>

\* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its subtypes:

\* <ul>

\* <li>{ @link ChannelInboundHandler } to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

\* Alternatively, the following adapter classes are provided for your convenience:

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>

\* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>

\* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>

\* </ul>

\* </p>

\* <p>

\* For more information, please refer to the documentation of each subtype.

\* </p>

\* </p>

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext } object. A { @link ChannelHandler } is supposed to interact with the { @link ChannelPipeline } it belongs to via a context object. Using the context object, the { @link ChannelHandler } can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using { @link AttributeKey }s) which is specific to the handler.

\* </p>

\* <h3>State management</h3>

\* </p>

\* A { @link ChannelHandler } often needs to store some stateful information. The simplest and recommended approach is to use member variables:

\* <pre>

\* public interface Message {

\* // your methods here

\* }

\* </pre>

\* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {

\* <b>private boolean loggedIn;</b>

\* </pre>

\* { @code @Override }

\* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {

\* if (message instanceof LoginMessage) {

\* authenticate((LoginMessage) message);

```

* loggedIn = true;
* } else (message instanceof GetDataMessage) {
* if (loggedIn) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
* }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
* {@code @Override}
* public void initChannel({@link Channel} channel) {
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
* </pre>

```

\* <h4>Using {@link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use {@link AttributeKey}s which is provided by {@link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
* // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
* private final {@link AttributeKey}<{@link Boolean}> auth =
* {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* {@code @Override}
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
* {@link Attribute}<{@link Boolean}> attr = ctx.attr(auth);

```

```

* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* }
* ...
* }
* </pre>

```

\* Now that the

state of the handler is attached to the {@link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
*
* private static final DataServerHandler SHARED = new DataServerHandler();
*
* {@code @Override}
* public void initChannel({@link Channel} channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>

```

\*  
\*

\* <h4>The {@code @Sharable} annotation</h4>

\* <p>

\* In the example above which used an {@link AttributeKey}, you might have noticed the {@code @Sharable} annotation.

\* <p>

\* If a {@link ChannelHandler} is annotated with the {@code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more {@link ChannelPipeline}s multiple times without a race condition.

\* <p>

\* If this annotation is not specified, you have to create a new handler

\* instance every time you add it to a pipeline because it has unshared state such as member variables.

\* <p>

\* This annotation is provided for documentation purpose, just like

\* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

\*  
\*

```
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/
```

Found in path(s):

```
*/opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/ChannelHandler.java
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*/opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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Found in path(s):

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-transport/pom.xml

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io.netty/channel/oio/OioByteStreamChannel.java

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io.netty/channel/AbstractEventLoopGroup.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-

jar/io/netty/channel/ConnectTimeoutException.java  
\*  
/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/DefaultChannelGroup.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelHandlerAdapter.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelProgressiveFuture.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelOutboundBuffer.java  
\*  
/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/SimpleChannelInboundHandler.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/DefaultChannelId.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/bootstrap/ChannelFactory.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelProgressiveFutureListener.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/ChannelGroup.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/ChannelGroupException.java  
\*  
/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/MessageSizeEstimator.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/ChannelMatchers.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/DefaultAddressedEnvelope.java

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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelId.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/AddressedEnvelope.java

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-

jar/io/netty/channel/socket/nio/NioChannelOption.java

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java

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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/ChannelPool.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/package-info.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\*

/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

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* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/META-
INF/native-image/io.netty.netty-transport/native-image.properties
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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/nio/NioEventLoop.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java

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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/FileRegion.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelException.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ServerChannel.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java

\*

/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/CompleteChannelFuture.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-

jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/EventLoop.java  
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jar/io/netty/channel/AbstractServerChannel.java  
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jar/io/netty/channel/oio/OioEventLoopGroup.java  
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jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelOutboundHandler.java  
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jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelInboundHandler.java  
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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
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jar/io/netty/channel/local/LocalChannelRegistry.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannel.java

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/nio/package-info.java  
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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java  
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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/DefaultFileRegion.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-



jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/local/package-info.java  
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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/oio/package-info.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelConfig.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/oio/AbstractOioByteChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/AbstractChannel.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/FailedChannelFuture.java  
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/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelHandlerContext.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/FixedRecvByteBufAllocator.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/VoidChannelPromise.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelFuture.java  
\*  
/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelMetadata.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/EventLoopException.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/package-info.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/local/LocalServerChannel.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java

\*

/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelInitializer.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelFutureListener.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/nio/package-info.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java

\*

/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelPipeline.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/DefaultChannelConfig.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java

\*

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\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java

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jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
*
/opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
*
/opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
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jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
*
/opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
*
/opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1813842743_1696535032.7543929/0/netty-transport-4-1-99-final-sources-
jar/io/netty/channel/internal/ChannelUtils.java
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jar/io/netty/channel/PendingWriteQueue.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ReflectiveChannelFactory.java  
\*

/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/embedded/EmbeddedChannelId.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/ChannelFactory.java  
\* /opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-  
jar/io/netty/channel/AbstractEventLoop.java

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jar/io/netty/channel/ChannelHandlerMask.java  
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jar/io/netty/channel/EventLoopTaskQueueFactory.java

\*

/opt/cola/permits/1813842743\_1696535032.7543929/0/netty-transport-4-1-99-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

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jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
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/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
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jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
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jar/io/netty/handler/ssl/JdkSslServerContext.java
*
/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
```



jar/io/netty/handler/ssl/CipherSuiteFilter.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslEngine.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslEngineMap.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ipfilter/UniqueIpFilter.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslContext.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/SslUtils.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/PemReader.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ipfilter/package-info.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

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\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/traffic/package-info.java

\*

/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

\*

/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/flush/package-info.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

```
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*
/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/PemValue.java
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```
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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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jar/io/netty/handler/ssl/EnhancingX509ExtendedTrustManager.java
```

```
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java
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- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/SslHandler.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
- \*
- /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/package-info.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/stream/package-info.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/logging/LogLevel.java
- \*
- /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/logging/package-info.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/package-info.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
- \*
- /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
- \* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-

jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/timeout/ReadTimeoutException.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/stream/ChunkedStream.java  
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* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
*
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jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
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* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
*
/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/address/package-info.java
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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
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jar/io/netty/handler/ssl/GroupsConverter.java  
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jar/io/netty/handler/ssl/OpenSslContextOption.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionCache.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/BouncyCastle.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/SslContextOption.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/AsyncRunnable.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
\*  
/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/Ciphers.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionId.java  
\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-  
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java  
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jar/io/netty/handler/pcap/PcapWriter.java

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* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
*
/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
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* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
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image/io.netty.netty-handler/native-image.properties
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*/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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*/opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java
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jar/io/netty/handler/ssl/BouncyCastlePemReader.java
* /opt/cola/permits/1813842844_1696534987.658168/0/netty-handler-4-1-99-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java
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\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java

\*

/opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

\* /opt/cola/permits/1813842844\_1696534987.658168/0/netty-handler-4-1-99-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

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jar/io/netty/handler/flow/FlowControlHandler.java

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.620 spew 1.1.1

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## 1.621 gojsonreference 0.0.0-20180127040603- bd5ef7bd5415

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## 1.622 mergo 0.3.13

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
 site: string
 author: root
```

# 1.623 gofuzz 1.2.0

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localtime.go, localtime\_test.go:

Originals:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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## 1.636 miekg-dns 1.1.43

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- javaee\_5.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- web-app\_3\_0.xsd
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Schemas for Java EE Deployment Descriptors:

- 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
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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# 1.645 activation 1.2.2

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# 1.650 otel-sdk-metric 1.19.0

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# 1.651 otel-exporters-otlp-otlptrace-otlptracegrpc 1.19.0

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# 1.652 otel-exporters-otlp-otlpmetric-otlpmetrichttp 0.42.0

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## 1.653 otel-exporters-otlp-otlptrace 1.19.0

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# 1.654 go-jose 2.5.1

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## 1.655 python-pip 22.2.2

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
non-profit organization created specifically to own Python-related  
Intellectual Property. Zope Corporation is a sponsoring member  
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releases have also been GPL-compatible; the table below summarizes  
the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

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Just configure this file as the SSLCACertificateFile.#

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.657 python-setuptools 65.6.0

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## 1.668 goprotobuf 1.5.3

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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- javaee\_web\_services\_1\_3.xsd
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- 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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Schemas for Java EE Deployment Descriptors:

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

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
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Schemas for Java EE Deployment Descriptors:

- 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
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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## 1.682 netty-codec-xml 4.1.99.Final

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```
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlEntityReference.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlNamespace.java
*
/opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlDecoder.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlAttribute.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlElementStart.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlComment.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlDocumentEnd.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlDocumentStart.java
*
/opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
```

```
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlDTD.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlContent.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlCdata.java
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-
jar/io/netty/handler/codec/xml/XmlElement.java
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```
* /opt/cola/permits/1839771762_1699032191.4310265/0/netty-codec-xml-4-1-99-final-sources-jar/META-
INF/maven/io.netty/netty-codec-xml/pom.xml
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\* /opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java  
\* /opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java  
\*  
/opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java  
\* /opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/io/netty/channel/rxtx/package-info.java  
\* /opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java  
\* /opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java

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\* /opt/cola/permits/1839771839\_1699032204.0028644/0/netty-transport-rxtx-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-transport-rxtx/pom.xml

## 1.684 netty-codec-dns 4.1.99.Final

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* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
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jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
*
```

```
/opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
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jar/io/netty/handler/codec/dns/DnsCodecUtil.java

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\* /opt/cola/permits/1839771852\_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java

\* /opt/cola/permits/1839771852\_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java

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/opt/cola/permits/1839771852\_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java

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* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsQuestion.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordType.java
*
/opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
*
/opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
*
/opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/package-info.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-

```

```
jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsOpCode.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
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* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
*
/opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/1839771852_1699032201.5745392/0/netty-codec-dns-4-1-99-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
```

## 1.685 netty-transport-classes-epoll

### 4.1.99.Final

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\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

\*

/opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollMode.java

\*

/opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-

jar/io/netty/channel/epoll/TcpMd5Util.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-

jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

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/\*\*

\* Set the {@code TCP\_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the {@code TCP\_QUICKACK} option on the socket.

\* See [TCP\\_QUICKACK](https://linux.die.net/man/7/tcp)

\* for more details.

\*/

Found in path(s):

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-

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* /opt/cola/permits/1839771784_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-
jar/io/netty/channel/epoll/VSocketAddress.java
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* /opt/cola/permits/1839771784_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
```

```
* /opt/cola/permits/1839771784_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
```

```
*
```

```
/opt/cola/permits/1839771784_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-
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```

```
*/
```

```
/**
```

```
* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
```

```
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
```

\* Allowing them being read would mean anyone with access to the channel could get them.

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\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/package-info.java

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/opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java

\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java

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\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

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\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java

\*

/opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java



\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/Epoll.java

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\* /opt/cola/permits/1839771784\_1699032239.39384/0/netty-transport-classes-epoll-4-1-99-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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# 1.686 netty-transport-udt 4.1.99.Final

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* /opt/cola/permits/1839771791_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
*
/opt/cola/permits/1839771791_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-
jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1839771791_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-
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* /opt/cola/permits/1839771791_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-
jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1839771791_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/cola/permits/1839771791_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-
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\* /opt/cola/permits/1839771791\_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-jar/io/netty/channel/udt/nio/package-info.java  
\*  
/opt/cola/permits/1839771791\_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java  
\* /opt/cola/permits/1839771791\_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-jar/io/netty/channel/udt/UdtMessage.java  
\* /opt/cola/permits/1839771791\_1699032199.3390024/0/netty-transport-udt-4-1-99-final-sources-jar/io/netty/channel/udt/package-info.java

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jar/io/netty/handler/codec/stomp/StompFrame.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java
*
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jar/io/netty/handler/codec/stomp/StompConstants.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompCommand.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompHeaders.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframe.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
*
/opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/package-info.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
```

```
jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
jar/io/netty/handler/codec/stomp/StompContentSubframe.java
*
/opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-
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```
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* /opt/cola/permits/1839771781_1699032243.7778418/0/netty-codec-stomp-4-1-99-final-sources-jar/META-
INF/maven/io.netty/netty-codec-stomp/pom.xml
```

# 1.688 netty-transport-sctp 4.1.99.Final

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\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/handler/codec/sctp/package-info.java

\*  
/opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java  
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\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/DefaultSctpServerChannelConfig.java  
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\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/oio/package-info.java  
\*

/opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/package-info.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/nio/package-info.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/oio/OioSctpChannel.java

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\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java

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\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/SendFailedNotification.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java  
\*  
/opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/MessageInfo.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/SctpSocketOption.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/SctpServerChannel.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/SctpChannel.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/UnsupportedOperationException.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/SctpChannel.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/NotificationHandler.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/ShutdownNotification.java  
\*  
/opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/package-info.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/AssociationChangeNotification.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/AbstractNotificationHandler.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/com/sun/nio/sctp/HandlerResult.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/io/netty/channel/sctp/SctpMessage.java  
\* /opt/cola/permits/1839771817\_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-

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jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
*
/opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/com/sun/nio/sctp/Association.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/com/sun/nio/sctp/PeerAddressChangeNotification.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/com/sun/nio/sctp/SctpStandardSocketOptions.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
jar/com/sun/nio/sctp/Notification.java
*
/opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-
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* /opt/cola/permits/1839771817_1699032193.3623736/0/netty-transport-sctp-4-1-99-final-sources-jar/META-
INF/maven/io.netty/netty-transport-sctp/pom.xml
```

# 1.689 netty-transport-classes-kqueue

## 4.1.99.Final

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jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainDatagramChannel.java
*
/opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
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jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
*
/opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/package-info.java
*
/opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueEventArray.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
```

```
jar/io/netty/channel/kqueue/KQueue.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelConfig.java
*
/opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/BsdSocket.java
*
/opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoop.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1839771761_1699032241.6774032/0/netty-transport-classes-kqueue-4-1-99-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelOption.java
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# 1.690 netty-codec-haproxy 4.1.99.Final

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\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyCommand.java  
\*  
/opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyProtocolVersion.java  
\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java  
\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java  
\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java  
\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyConstants.java  
\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessage.java

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\* /opt/cola/permits/1839771769\_1699032233.2564394/0/netty-codec-haproxy-4-1-99-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java  
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# 1.691 netty-codec-smtp 4.1.99.Final

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\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequest.java  
\*  
/opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpContent.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponse.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/package-info.java  
\*  
/opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpUtils.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequests.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java  
\* /opt/cola/permits/1839771776\_1699032237.0836406/0/netty-codec-smtp-4-1-99-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java  
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# 1.692 netty-resolver-dns 4.1.99.Final

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\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java  
\*  
/opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java  
\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-

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jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
*
/opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
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jar/io/netty/resolver/dns/DnsCacheEntry.java
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/opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
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jar/io/netty/resolver/dns/DnsQueryContext.java
*
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jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
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* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
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* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
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*
/opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
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\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java

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/opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java  
\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java  
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\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java  
\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java  
\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/Cache.java

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Found in path(s):

\* /opt/cola/permits/1839771826\_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/io/netty/resolver/dns/DnsServerResponseFeedbackAddressStream.java

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* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/DnsCache.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/NoopDnsCache.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/InflightNameResolver.java
*
/opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-
jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
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```
* /opt/cola/permits/1839771826_1699032235.0412502/0/netty-resolver-dns-4-1-99-final-sources-jar/META-
INF/native-image/io.netty/netty-resolver-dns/native-image.properties
```

# 1.693 netty-codec-mqtt 4.1.99.Final

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttQoS.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-  
jar/io/netty/handler/codec/mqtt/package-info.java

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttMessageBuilders.java

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-codec-mqtt/pom.xml

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io.netty.handler.codec.mqtt/MqttReasonCodes.java

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConstant.java

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java

\*

/opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageType.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectReturnCode.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessage.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttEncoder.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttVersion.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java

\*

/opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubAckMessage.java

\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckMessage.java  
\*

/opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java  
\*

/opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttDecoder.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubscribePayload.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java

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\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscriptionOption.java  
\*  
/opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttReasonCodeAndPropertiesVariableHeader.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdAndPropertiesVariableHeader.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttProperties.java  
\* /opt/cola/permits/1839771832\_1699032228.600377/0/netty-codec-mqtt-4-1-99-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubReplyMessageVariableHeader.java

# 1.694 netty-codec-memcache 4.1.99.Final

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jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/package-info.java
*
/opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/MemcacheMessage.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java
*
/opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/MemcacheObject.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/package-info.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseDecoder.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
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jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
*
/opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpCodes.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
*
/opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/MemcacheContent.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheRequest.java
*
/opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java
* /opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java
*
/opt/cola/permits/1839771801_1699032195.1907725/0/netty-codec-memcache-4-1-99-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java

```

## 1.695 netty-handler-ssl-ocsp 4.1.99.Final

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Found in path(s):

```
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-jar/META-INF/maven/io.netty/netty-handler-ssl-ocsp/pom.xml
```

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```
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClient.java
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
*
/opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-jar/io/netty/handler/ssl/ocsp/IoTransport.java
```

```
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspValidationEvent.java
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspServerCertificateValidator.java
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspResponse.java
* /opt/cola/permits/1839771808_1699032223.568516/0/netty-handler-ssl-ocsp-4-1-99-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspHttpHandler.java
```

## 1.696 netty-resolver-dns-classes-macos

### 4.1.99.Final

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* /opt/cola/permits/1839771866_1699032197.234063/0/netty-resolver-dns-classes-macos-4-1-99-final-sources-
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\* /opt/cola/permits/1839771866\_1699032197.234063/0/netty-resolver-dns-classes-macos-4-1-99-final-sources-jar/io/netty/resolver/dns/macos/package-info.java  
\* /opt/cola/permits/1839771866\_1699032197.234063/0/netty-resolver-dns-classes-macos-4-1-99-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java  
\*  
/opt/cola/permits/1839771866\_1699032197.234063/0/netty-resolver-dns-classes-macos-4-1-99-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java

# 1.697 netty-codec-redis 4.1.99.Final

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\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-jar/io/netty/handler/codec/redis/RedisConstants.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-jar/io/netty/handler/codec/redis/ErrorMessage.java  
\*  
/opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-jar/io/netty/handler/codec/redis/RedisDecoder.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-

jar/io/netty/handler/codec/redis/RedisMessageType.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisMessagePool.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java  
\*  
/opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisEncoder.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisMessage.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisCodecException.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/package-info.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisCodecUtil.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/IntegerRedisMessage.java  
\*  
/opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java  
\*  
/opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java  
\* /opt/cola/permits/1839771858\_1699032231.1179316/0/netty-codec-redis-4-1-99-final-sources-  
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java  
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jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

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## 1.698 x-text 0.14.0

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## 1.699 docker-credential-helpers 0.8.0

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```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
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Mozilla Public License, version 2.0
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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[localtime.go](https://localtime.go), [localtime\\_test.go](https://localtime.test.go):

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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// OtherLicense is an Other License Information section of an

// SPDX Document for version 2.2 of the spec.

type OtherLicense struct {

// 10.1: License Identifier: "LicenseRef-[idstring]"

// Cardinality: conditional (mandatory, one) if license is not

// on SPDX License List

LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text

// Cardinality: conditional (mandatory, one) if there is a

// License Identifier assigned

ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"

// Cardinality: conditional (mandatory, one) if license is not

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LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference

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LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//

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package v2\_1

// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.1 of the spec.

type OtherLicense struct {

// 6.1: License Identifier: "LicenseRef-[idstring]"

// Cardinality: conditional (mandatory, one) if license is not

// on SPDX License List

LicenseIdentifier string `json:"licenseId"`

// 6.2: Extracted Text

// Cardinality: conditional (mandatory, one) if there is a

```

// License Identifier assigned
ExtractedText string `json:"extractedText"`

// 6.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
// on SPDX License List
LicenseName string `json:"name,omitempty"`

// 6.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
// is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 6.5:
License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
Copyright (c) the purl authors

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type OtherLicense struct {

    // 10.1: License Identifier: "LicenseRef-[idstring]"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseIdentifier string `json:"licenseId"`

    // 10.2: Extracted Text

    // Cardinality: conditional (mandatory, one) if there is a

    //         License Identifier assigned

    ExtractedText string `json:"extractedText"`

    // 10.3: License Name: single line of text or "NOASSERTION"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseName string `json:"name,omitempty"`

    // 10.4: License Cross Reference

    // Cardinality: conditional (optional, one or many) if license

    //         is not on SPDX License List

    LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

    // 10.5: License Comment

    // Cardinality:

    // optional, one

    LicenseComment string `json:"comment,omitempty"`

    }

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.



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localtime.go, localtime\_test.go:

Originals:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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lib/erl/src/Makefile.am

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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4

components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 * be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//
//
```

-----  
Codegen template  
in t\_html\_generator.h

```
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*
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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

-----  
For t\_cl\_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

-----  
Copyright (c) 2012 Dave Grijalva  
Copyright (c) 2021 golang-jwt maintainers

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## 1.706 libatomic 13.2.1\_git20231014-r0

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Any

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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# 1.710 go-toml 1.9.5

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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Found in path(s):

\* /opt/cola/permits/1866691799\_1706618799.5875115/0/netty-resolver-dns-native-macos-4-1-99-final-osx-aarch-64-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Resolver/DNS/Native/MacOS

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver.dns.macos.osx.aarch\_64

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.resolver-dns-native-macos



Implementation-Version: 4.1.99.Final  
Built-By: norman  
Bnd-LastModified: 1695893187549  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: https://netty.io/  
Bundle-Vendor: The Netty Project  
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;  
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="  
[1,2)";resolution:=optional  
Fragment-Host: io.netty.resolver-dns-classes-macos  
Tool: Bnd-6.3.1.202206071316  
Implementation-Vendor: The  
Netty Project  
Bundle-Name: Netty/Resolver/DNS/Native/MacOS  
Bundle-Version: 4.1.99.Final  
Bundle-NativeCode: META-INF/native/libnetty\_resolver\_dns\_native\_macos\_  
aarch\_64.jnilib; osname=MacOSX; processor=aarch\_64  
Build-Jdk-Spec: 1.8  
Created-By: Apache Maven Bundle Plugin 5.1.8  
Build-Jdk: 1.8.0\_382  
Implementation-URL: https://netty.io/netty-resolver-dns-native-macos/

Found in path(s):

\* /opt/cola/permits/1866691799\_1706618799.5875115/0/netty-resolver-dns-native-macos-4-1-99-final-osx-aarch-64-jar/META-INF/MANIFEST.MF

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## 1.722 tomcat-native 1.2.35

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## 1.727 klauspost-compress 1.17.4

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# 1.728 google-uuid 1.5.0

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Paul Borman <borman@google.com>

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\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/SocketFactory.java  
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\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/jce/Random.java  
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\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/SftpException.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/SignatureRSA.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/jce/DH.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/ChannelForwardedTCPIP.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/CipherNone.java  
\*  
/opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/HostKey.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/ChannelSftp.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/UserInfo.java

```
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/KeyPair.java
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-
jar/com/jcraft/jsch/jce/HMACMD5.java
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/Util.java
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-
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* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-
jar/com/jcraft/jsch/ServerSocketFactory.java
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*
/opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/Packet.java
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/RequestSftp.java
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/DH.java
* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-
jar/com/jcraft/jsch/ChannelExec.java
```

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* /opt/cola/permits/1877585448_1704094345.0328903/0/jsch-0-1-49-sources-2-
```

jar/com/jcraft/jsch/LocalIdentityRepository.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-  
jar/com/jcraft/jsch/IdentityRepository.java  
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\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/jce/HMAC.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-  
jar/com/jcraft/jsch/jce/HMACSHA256.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-  
jar/com/jcraft/jsch/jce/HMACSHA512.java  
\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/Signature.java  
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\* /opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/jce/AES192CBC.java

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\*

/opt/cola/permits/1877585448\_1704094345.0328903/0/jsch-0-1-49-sources-2-jar/com/jcraft/jsch/RequestSubsystem.java

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## 1.734 tags.cncf.io-container-device-interface

### 0.6.2

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# 1.735 go-connections 0.5.0

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package spec

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

    Name string `json:"name,omitempty"`

    URL string `json:"url,omitempty"`

}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# 1.741 buildkit 0.13.0-beta1.0.20231219135447-957cb50df991

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## 1.742 xxhash 2.2.0

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## 1.743 libbacktrace 0

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```

## 1.744 logr 1.2.3

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```
/*
Source: https://github.com/algolia/docsearch/
License: MIT
*/
```

Found in path(s):

```
* /opt/cola/permits/1891814508_1706008613.3362105/0/dbosak01-logr-v1-2-3-0-ge637e6c-1-tar-gz/dbosak01-logr-
e637e6c/docs/docsearch.css
```

No license file was found, but licenses were detected in source scan.

```
/*!
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
* Copyright 2015 Aidan Feldman
* Licensed under MIT (https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md) */
```

Found in path(s):

```
* /opt/cola/permits/1891814508_1706008613.3362105/0/dbosak01-logr-v1-2-3-0-ge637e6c-1-tar-gz/dbosak01-logr-
e637e6c/docs/bootstrap-toc.css
```

```
* /opt/cola/permits/1891814508_1706008613.3362105/0/dbosak01-logr-v1-2-3-0-ge637e6c-1-tar-gz/dbosak01-logr-
```

e637e6c/docs/bootstrap-toc.js

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Package: logr

Title: Creates Log Files

Version: 1.2.3

Authors@R:

```
person(given = "David",
 family = "Bosak",
 role = c("aut", "cre"),
 email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log\_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 4.0.0)

Suggests: knitr,  
 rmarkdown,  
 testthat,  
 tidylog,  
 dplyr,  
 utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

```
* /opt/cola/permits/1891814508_1706008613.3362105/0/dbosak01-logr-v1-2-3-0-ge637e6c-1-tar-gz/dbosak01-logr-e637e6c/DESCRIPTION
```

# 1.745 kubernetes-klog 2.80.1

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# 1.748 armon-go-metrics 0.4.1

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# 1.749 mergo 0.3.16

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

```
site: string
```

```
author: root
```

## 1.750 testify 1.8.4

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# 1.751 compose-spec-compose-go 2.0.0-rc.2

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/opt/cola/permits/1893016702\_1706622891.700756/0/docker-24-0-6-1-tgz/docker/docker: binary file matches  
/opt/cola/permits/1893016702\_1706622891.700756/0/docker-24-0-6-1-tgz/docker/docker-init: binary file matches  
/opt/cola/permits/1893016702\_1706622891.700756/0/docker-24-0-6-1-tgz/docker/dockerd: binary file matches  
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Found in path(s):

\* /bin/grep

# 1.753 logr 1.2.4

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",
 family = "Bosak",
 role = c("aut", "cre"),
 email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log\_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 3.4.0)

Suggests: knitr,

markdown,

testthat,

tidylog,

dplyr,

utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

```
* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION
```

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```
/*!
```

```
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
```

```
* Copyright 2015 Aidan Feldman
```

```
* Licensed under MIT (https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md) */
```

Found in path(s):

```
* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js
```



\* /opt/cola/permits/1893063483\_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

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/\*

Source: <https://github.com/algolia/docsearch/>

License: MIT

\*/

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\* /opt/cola/permits/1893063483\_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css

# 1.754 fluent-logger-golang 1.9.0

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# 1.755 memberlist 0.4.0

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## 1.756 btree 1.1.2

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## 1.760 gax-go 2.4.0

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# 1.761 google-cloud-go 0.102.1

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
```

```

"net/http"
"net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
 Get: []gax.CallOption{ },
 TestIamPermissions: []gax.CallOption{ },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

```



```

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.

```

```

endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts :=
 defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)

```

```

kv = append(kv, "gpic", getVersionClient(), "gax",
gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil,
err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err

```

```

}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err
:= c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

```

```

baseUrl,
err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {

```

```

 return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
 Delete []gax.CallOption
 Get []gax.CallOption
 GetIamPolicy []gax.CallOption
 Insert []gax.CallOption
 List []gax.CallOption
 SetIamPolicy []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
 Delete: []gax.CallOption{ },
 Get: []gax.CallOption{ },
 GetIamPolicy: []gax.CallOption{ },
 Insert: []gax.CallOption{ },
 List: []gax.CallOption{ },
 SetIamPolicy: []gax.CallOption{ },
 TestIamPermissions: []gax.CallOption{ },
 }
}

//
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
 error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
 error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

//
// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.

```

```

internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
// API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party
// partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {

```



```

return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or
windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient
}

```

```

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(),
 opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
 return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()),
 }
}

```

```

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
 return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{ }
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

```

```

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
 baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}

```

```

return
op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown:
 true }
 resp := &computepb.License{ }
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

```

```

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{ }
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{ }
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {

```

```

 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

```

```

params := url.Values{ }
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts
= append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}

```



```

}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c:
 c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 }
}

```

```

}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess",
fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {

```

```

 return nil, "", e
}
it.Response
= resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{ AllowPartial: true }
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if
err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =

```

```

append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST",
baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {

```

```

m := protojson.MarshalOptions{ AllowPartial:
true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context,
settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)

```

```

if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=

```

```

nil {
 return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
}

```

```

defer c.Close()

// TODO: Use
client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

```



}

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute_test
```

```
import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)
```

```
func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer
 c.Close()
```

```
 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.DeleteLicenseRequest{
```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
-
= resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)

```

```

if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
 // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
 break

```



```

 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
}

```

```
_ = resp
}
```

# 1.762 docker-compose 2.6.0

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