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1.591 e2fsprogs 1.45.5-2ubuntu1.1

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1.2 libffi 3.0.13

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1.3 python-certifi 2019.11.28

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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:
<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 \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.4 distlib 0.3.0

1.4.1 Available under license :

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
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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=====

The Distutils2 project was started by Tarek Ziad and is currently
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distlib has started off using some of the code from distutil2.

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Thanks to:

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- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
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- Godefroid Chapelle

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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1.7 etree 1.1.0

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1.8 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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1.9 go-kit 0.10.0

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1.10 tablewriter 0.0.4

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1.13 go-runewidth 0.0.9

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compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrift.ll
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
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lib/csharp/src/Protocol/TProtocolFactory.cs
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lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs

lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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```
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L. Peter Deutsch
ghost@aladdin.com

```
*/
```

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1.16 go-md2man 2.0.0

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1.17 sqlite 3.41.0

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1.18 golang-snappy 0.0.2

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1.19 libyaml 0.2.5

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1.20 python3-asn1crypto 0.24.0

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1.21 idna 2.8

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
import io, sys
from setuptools import setup
```

```
def main():
```

```

python_version = sys.version_info[:2]
if python_version < (2,7):
    raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```


1.22 appdirs 1.4.3

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1.23 pyparsing 2.4.6

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1.24 toml 0.10.0

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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.]

Preamble

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

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent

of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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

In addition,

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

Library into a program that is not a library.

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

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

compelled to copy the source along with the object code.

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

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

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

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

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

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

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) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

permitted, and provided that you do these two things:

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>

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

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

Here is a sample; alter the names:

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

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

That's all there is to it!

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Version 3, 29 June 2007

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

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If

the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered

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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;

section 10

makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately

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keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
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You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

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it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".
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A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
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1.29 libsodium 1.0.18

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1.30 go-redis-redis 5.2.9

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1.31 c-ares 1.17.0

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1.32 gosqlite 1.14.6

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1.33 grpc-go 1.36.0

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1.34 aws-sdk-go 1.37.20

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1.35 gax-go 2.0.5

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1.36 ubuntu-keyring 2020.02.11.4

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1.37 netmiko 2.4.1

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1.39 kafka-python 1.4.5

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1.40 stack 1.8.0

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1.41 cachecontrol 0.12.6

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1.42 contextlib2 0.6.0

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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.

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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	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
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3.3	3.2			

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1.44 visual-studio-runtime 15.9.9(VC++ 2017)

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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Bit Twiddling Hacks

By Sean Eron Anderson
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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The punycode implementation is based on the sample code in RFC 3492

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```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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1.45 lockfile 0.12.2

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1.47 ply 3.11

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PLY (Python Lex-Yacc)

Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
If you know how to use these tools in C, you will find PLY
to be similar.
- PLY provides *very* extensive error reporting and diagnostic
information to assist in parser construction. The original
implementation was developed for instructional purposes. As
a result, the system tries to identify the most common types
of errors made by novice users.
- PLY provides full support for empty productions, error recovery,

precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

=====

Here is a simple example showing a PLY implementation
of a calculator
with variables.

```
# -----  
# calc.py  
#  
# A simple calculator with variables.  
# -----  
  
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
)  
  
# Tokens  
  
t_PLUS = r'\+'  
t_MINUS = r'\-'  
t_TIMES = r'\*'  
t_DIVIDE = r'\/'  
t_EQUALS = r'='  
t_LPAREN = r'\('  
t_RPAREN = r'\)'  
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'  
  
def t_NUMBER(t):  
    r'\d+'  
    t.value = int(t.value)  
    return t  
  
# Ignored characters  
t_ignore = " \t"  
  
def t_newline(t):  
    r'\n+'  
    t.lexer.lineno += t.value.count("\n")  
  
def t_error(t):  
    print("Illegal character '%s'" % t.value[0])  
    t.lexer.skip(1)  
  
# Build the lexer  
import ply.lex as lex  
lex.lex()
```

```

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+' : p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:

```

```

        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page

at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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1.48 ansible 2.10.0

1.48.1 Available under license :

This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from <https://github.com/ansible/ansible.git>

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bugfixes:

- "Prevent templating unused variables for {% include %}" (<https://github.com/ansible/ansible/issues/68699>)

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1.52 importlib-metadata 4.8.1

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1.53 typing-extensions 3.10.0.2

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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.

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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)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.54 iotop 0.6-24-g733f3f8-1

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bugfixes:

- "Prevent templating unused variables for {% include %}" (<https://github.com/ansible/ansible/issues/68699>)"

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1.70 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.78 protobuf 1.25.0

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```

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1.79 hashicorp-go-plugin 1.4.0

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1.85 objx 0.2.0

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1.88 json-iterator-go 1.1.11

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1.89 mwitkow-go-contrack 0.0.0-20190716064945-2f068394615f

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1.90 blackfriday 2.0.1

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1.91 zap 1.17.0

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1.92 sanitized-anchor-name 1.0.0

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1.93 gogo-googleapis 1.4.0

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1.95 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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1.96 json-iterator-go 1.1.10

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1.104 sergi-go-diff 1.0.0

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1.106 felixge-httpsnoop 1.0.1

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1.110 trylock 0.0.0-20191027065348-ff7e133a5c54

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 * /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/util/SamlUtils.java
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 /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
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1.112 gopkg.in-yaml 3.0.0-20210107192922-496545a6307b

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1.113 pretty 1.2.0

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1.116 goleak 1.1.10

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1.117 charset-normalizer 2.0.7

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1.118 errors 0.9.1

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1.119 facebookgo-stats 0.0.0-20180706035515-f23751cae28b

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1.120 golcs 0.0.0-20170316035057-ecda9a501e82

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1.121 xorm.io-core 0.7.3

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1.122 gojsondiff 1.0.0

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cli.go - <https://github.com/urfave/cli>

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gomega - <https://github.com/onsi/gomega>

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1.123 xorm.io-builder 0.3.6

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1.124 gopkg-in/mail 2.3.1

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1.125 facebookgo-structtag 0.0.0-

20150214074306-217e25fb9691

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1.126 com 1.0.1

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1.127 vividcortex-mysqlerr 0.0.0- 20170204212430-6c6b55f8796f

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1.128 go-macaron-binding 0.0.0- 20190806013118-0b4f37bab25b

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1.129 go-macaron-inject 0.0.0-20160627170012-d8a0b8677191

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1.130 cheekybits-genny 1.0.0

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1.131 shortid 0.0.0-20171029131806-771a37caa5cf

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1.132 inject 0.0.0-20180706035515-f23751cae28b

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1.133 go-datemath 0.1.1-0.20200323150745-74ddef604fff

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1.134 grafana-grafana-plugin-model 0.0.0-20190930120109-1fc953a61fb4

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1.135 go-macaron-gzip 0.0.0-20160222043647-cad1c6580a07

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1.136 uap-go 0.0.0-20190826212731-daf92ba38329

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1.137 gopkg-in/ldap 3.0.2

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1.138 benbjohnson-clock 0.0.0-20161215174838-7dc76406b6d3

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1.139 go-immutable-radix 1.3.1

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1.140 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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1.141 robot-telemetry_proto 0.0.0-20210520062046-a73bb180cba4

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```
/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
 */
/*
 * This YANG module has been generated by smidump 0.5.0:
 *
 *   smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
 *
 * Do not edit. Edit the source file instead!
 */
```

```
module CISCO-IMAGE-LICENSE-MGMT-MIB {
```

```
    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";
    prefix "cisco-image-license-mgmt-mib";
```

```
import ENTITY-MIB {  
    prefix "entity-mib";  
}
```

```
import SNMP-FRAMEWORK-MIB {  
    prefix "snmp-framework";  
}
```

```
import ietf-yang-smiv2 {  
    prefix "smiv2";  
}
```

```
organization  
"Cisco Systems Inc.";
```

```
contact  
"Cisco Systems  
Customer Service  
Postal: 170 W Tasman Drive  
San Jose, CA 95134  
USA  
Tel: +1 800 553 -NETS  
E-mail: cs-snmp@cisco.com";
```

```
description  
"The MIB module for managing the running image level  
of a Cisco device. Cisco's licensing mechanism provides  
flexibility to run a device on a chosen image  
level.
```

This mechanism is referred to as image level licensing.
Image level licensing leverages the universal image
based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.

- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```
revision 2007-10-16 {
  description
    "Initial version of this MIB module.";
}
```

```
typedef BootImageLevel {
  type binary {
```

```

    length "0..255";
}
description
    "This textual convention is used to define
    the image level.

    If the device is running at advipservices
    image level, then the boot image level will
    be 'advipservices.'";
}

typedef LicenseNameList
{
    type binary {
        length "0..255";
    }
    description
        "This textual convention is used to define
        the list of license names. If multiple licenses
        are present then this string will contain all
        the licenses seperated by the ',' character.

        If the license required to run a device at
        advipservices image level is advipservices and
        advsecurity, then the license name list will be
        'advipservices,advsecurity.'";
}

container CISCO-IMAGE-LICENSE-MGMT-MIB {
    config false;

    container ciscoImageLicenseMgmtMIBObjects {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1";

        leaf cilmEULAAccepted {
            type boolean;
            description
                "This object when set to TRUE means that the user has
                accepted the END USER LICENSE AGREEMENT. This object
                has to be set to TRUE by the user before using the
                objects in the cilmBootImageLevelTable to configure
                the license.";
            smiv2:defval
                "false";
            smiv2:max-access "read-write";
            smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
        }
    }
}

```



```

}

container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

    leaf cilmImageLevelChangedNotif {
        type boolean;
        description
            "Specify whether or not a notification should be
            generated on the detection of change in next boot
            image level.

            If set to TRUE, cilmBootImageLevelChanged notification
            will be generated. It is the responsibility of the
            management entity to ensure that the SNMP administrative
            model is configured in such a way as to allow the
            notification to be delivered.";
        reference
            "See also RFC3413 for explanation that notifications
            are under the ultimate control of the MIB module in
            this document.";
        smiv2:defval "false";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
    }
}

```

```

container cilmBootImageLevelTable {
    description
        "A table that contains the configuration information of
        current and next boot image level. This table contains
        entries for each software module running in an image
        loaded in the device. The software module is identified by
        cilmModuleName and the device is identified by
        entPhysicalIndex.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

```

```

list cilmBootImageLevelEntry {
    key "entPhysicalIndex cilmModuleName";
    description
        "An entry in the table for each module containing the
        list of objects that define the configuration of next
        boot level. The following information is specified by
        the objects present in the table.

```

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.

- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```
leaf cilmModuleName {
  type snmp-framework:SnmpAdminString;
  description
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules
    - a base image module and a wireless module.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}
```

```
leaf cilmCurrentImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the current image level that
    the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}
```

```
leaf cilmConfiguredBootImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the configured image level
    of the module for the next boot.
```

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability.";

```
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}
```

```

leaf cilmNextBootImageLevel {
  type
cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the next boot image level. The
    next boot image level can be different from configured
    level. The next boot image level is determined based
    on the availability of required license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}

```

```

leaf cilmCurrentLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    currently used license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license store index can be '0' if no license is installed and device is running base image.";

```

  smiv2:max-access "read-only";

  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}

```

```

leaf cilmCurrentLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the currently used
    license. This object has the same value as clmgmtLicenseIndex and
    uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license index can be '0' if no license is installed and device is running base image.";

```

  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
}

```

```

leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    next boot license is stored. This object has the same

```

value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in

CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";

}

leaf cilmNextBootLicenseIndex {

type uint32;

description

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";

}

}

}

container cilmImageLevelToLicenseMapTable {

description

"This table contains the mapping between different image levels of each modules in the

image and the

license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

list cilmImageLevelToLicenseMapEntry {

key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";

description

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.

- The license required to the run a module at a particular image level.

- The priority of the license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf cilmModuleName {
  type leafref {

    path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
  }
}

leaf cilmImageLicenseMapIndex {
  type uint32;
  description
    "This is a running index used to identify an entry
    of this table.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}

leaf cilmImageLicenseImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the image level at which
    a module can be run. A module can be run at
    different image levels. An entry will be created
    in this table for every module and image level
    combination.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

leaf cilmImageLicenseName {
  type cisco-image-license-mgmt-mib:LicenseNameList;
  description
    "This object indicates the list of licenses needed to
    be installed for the module to run at the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

```

```

leaf cilmImageLicensePriority {
  type uint32 {
    range "1..255";
  }
  description
    "This object indicates the priority of the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry. The image level with the highest priority license
    will be considered as the default level in the absense of
    next boot image level configuration. For example if there
    are three licenses l1, l2 and l3 in the ascending order of

    priority, then by default l1 will be the level at which the
    module will be running. If the next boot level is configured
    then the configuration will override the priority. The highest
    priority license supports a feature set which is a super set of
    all other licenses.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}
}
}
}

notification cilmBootImageLevelChanged {
  description
    "This notification is triggered when next boot image level
    is changed in the management entity. The current and
    configured image level are indicated by cilmCurrentImageLevel
    and cilmConfiguredBootImageLevel objects respectively.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf cilmModuleName {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
      }
    }
  }
}

```

```

    }

    leaf cilmCurrentImageLevel {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf cilmModuleName {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
      }
    }

    leaf cilmConfiguredBootImageLevel {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
      }
    }
  }

  smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
  }

  smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
  }

  smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
  }

```

```

}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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#
# Names should be added to this file as:
#   Name <email address>

```

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--

-- Juniper Enterprise Specific MIB: License MIB

--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IPAddress,

NOTIFICATION-TYPE

FROM SNMPv2-SMI

jnxLicenseMibRoot

FROM JUNIPER-SMI

DisplayString

FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY

LAST-UPDATED "201007090000Z"

ORGANIZATION "Juniper Networks, Inc."

CONTACT-INFO

"Juniper Technical Assistance Center

Juniper Networks, Inc.

1194 N. Mathilda Avenue

Sunnyvale, CA 94089

E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB

for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

```
-- *****
-- License table for installed licenses
-- *****
```

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE

SYNTAX JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "A row of giving installed
feature license information."

INDEX { IMPLIED jnxLicenseId }

::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {

jnxLicenseId DisplayString,

jnxLicenseVersion INTEGER,

jnxLicenseDeviceId DisplayString,

jnxLicenseType INTEGER,

jnxLicenseKeys OCTET STRING

}

jnxLicenseId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "Installed feature licenses Id."

::= { jnxLicenseInstallEntry 1 }

jnxLicenseVersion OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License Version information"

::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

```

DESCRIPTION    "License Device Id "
::= { jnxLicenseInstallEntry
3 }

```

jnxLicenseType OBJECT-TYPE

```

SYNTAX         INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
MAX-ACCESS     read-only
STATUS         current
DESCRIPTION    "License type information"
::= { jnxLicenseInstallEntry 4 }

```

jnxLicenseKeys OBJECT-TYPE

```

SYNTAX         OCTET STRING
MAX-ACCESS     read-only
STATUS         current
DESCRIPTION    "License Keys"
::= { jnxLicenseInstallEntry 5 }

```

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE

```

SYNTAX         SEQUENCE OF JnxLicenseFeatureListEntry
MAX-ACCESS     not-accessible
STATUS         current
DESCRIPTION    "list of features supporting Licensing."
::= { jnxLicenseInstallObjects 2 }

```

jnxLicenseFeatureListEntry OBJECT-TYPE

```

SYNTAX         JnxLicenseFeatureListEntry
MAX-ACCESS     not-accessible
STATUS         current
DESCRIPTION    "A row of licensed features."
INDEX          { jnxLicenseFeatureId
}
::= { jnxLicenseFeatureListTable 1 }

```

JnxLicenseFeatureListEntry ::= SEQUENCE {

```

    jnxLicenseFeatureId      INTEGER,
    jnxLicenseFeatureName    DisplayString,
    jnxLicenseFeatureDescr   DisplayString,
    jnxLicenseFeatureLicenseId DisplayString,
    jnxLicenseFeatureLicenseUsed    INTEGER,
    jnxLicenseFeatureLicenseInstalled    INTEGER,
    jnxLicenseFeatureLicenseNeeded    INTEGER
}

```

jnxLicenseFeatureId OBJECT-TYPE

```

SYNTAX         INTEGER

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Feature Id to point an entry in this table"
::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Feature Name"
::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE

SYNTAX
DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Feature Name"
::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Feature License Id"
::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Licenses Used"
::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Licenses Installed"
::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Licenses Needed"
::= { jnxLicenseFeatureListEntry 7 }

```

-- *****
-- License configuration parameters
-- *****

jnxLicenseRenewBeforExpiration OBJECT-TYPE
    SYNTAX          INTEGER
    MAX-ACCESS       read-only
    STATUS           current
    DESCRIPTION
        "License renew lead time before expiration in days."
    ::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE
    SYNTAX          INTEGER
    MAX-ACCESS       read-only
    STATUS           current
    DESCRIPTION
        "License checking interval in hours."
    ::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS       read-only
    STATUS           current
    DESCRIPTION
        "License auto update URL of a license server."
    ::= { jnxLicenseSettings
3 }

-- *****
-- define branches for jnx license traps
-- *****

jnxLicenseGraceExpired NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName }
    STATUS current
    DESCRIPTION
        "The SNMP trap that is generated when the license grace period for
        feature identified by jnxLicenseFeatureName is expired"
    ::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName }
    STATUS current

```

DESCRIPTION

"The SNMP trap that is generated when the license grace period for feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license period for

feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the feature is used more times than as specified in number of licenses allowed for feature as identified by jnxLicenseFeatureName"

::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license for feature identified by jnxLicenseFeatureName is not valid i.e. either expired or not available."

::= { jnxLicenseNotifications 5 }

END

/*

* Generated by ncsc --mib2yang-std

* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib

*/

/*

* This YANG module has been generated by smidump 0.5.0:

*

* smidump -f yang CISCO-LICENSE-MGMT-MIB

*

* Do not edit. Edit the source file instead!

*/

module CISCO-LICENSE-MGMT-MIB {

```
namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
prefix "cisco-license-mgmt-mib";
```

```
import ENTITY-MIB {
  prefix "entity-mib";
}
```

```
import INET-ADDRESS-MIB {
  prefix "inet-address";
}
```

```
import SNMP-FRAMEWORK-MIB {
  prefix "snmp-framework";
}
```

```
import SNMPv2-TC {
  prefix "snmpv2-tc";
}
```

```
import ietf-yang-smiv2 {
  prefix "smiv2";
}
```

```
organization
  "Cisco Systems Inc.";
```

```
contact
  "Cisco Systems
  Customer Service
```

```
Postal: 170 W Tasman Drive
```

```
San Jose, CA 95134
```

```
USA
```

```
Tel: +1 800 553 -NETS
```

```
E-mail: cs-snmp@cisco.com";
```

```
description
  "The MIB module for managing licenses on the system.
```

The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition

and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered

licenses are valid for limited period of time

and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license

and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be

presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its

licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost

ticket as proof of revocation to

Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.

6. Executes the license install action on the new

device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action.
Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices.

In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```

revision 2008-11-21 {
description
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
    paidSubscription
    evaluationSubscription
    extensionSubscription
o Added following objects to clmgmtLicenseInfoTable
    clmgmtLicenseStartDate
    clmgmtLicenseEndDate
o Added following objects to clmgmtLicensableFeatureTable
    clmgmtFeatureStartDate
    clmgmtFeatureEndDate
o Added the following notifications
    clmgmtLicenseSubscriptionExpiryWarning
    clmgmtLicenseSubscriptionExtExpiryWarning
    clmgmtLicenseSubscriptionExpired
o Added the following conformance groups
    clmgmtLicenseSubscriptionGroup
    clmgmtLicenseSubscriptionUsageNotifGroup
The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

revision 2006-10-03 {
description
"Initial version of this MIB module.";
}

```

```

typedef ClmgmtLicenseIndex {
type uint32 {
range "1..4294967295";
}
description
"A unique value, for each license in the managed system.
It is not necessary to have values assigned contiguously.
The value for each license must remain constant
at least from one re-initialization of the entity's
network management system to the next re-initialization";
}

```

```

typedef ClmgmtLicenseIndexOrZero {
type uint32;
description

```

"This textual convention is an extension of the ClmgmtLicenseIndex convention.

The latter defines a greater than zero value used to identify a license in the managed system. This extension permits the additional value of zero. The value zero is object-specific and must therefore be defined as part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown.";

```
}
```

```
typedef ClmgmtLicenseTransferProtocol {  
  type enumeration {  
    enum "none" {  
      value "1";  
    }  
    enum "local" {  
      value "2";  
    }  
    enum "tftp" {  
      value "3";  
    }  
    enum "ftp" {  
      value "4";  
    }  
    enum "rcp" {  
      value "5";  
    }  
    enum "http" {  
      value "6";  
    }  
    enum "scp" {  
      value "7";  
    }  
    enum "sftp" {  
      value "8";  
    }  
  }  
  description  
  "The transfer protocol that should be used for copying files  
  when performing license management. When  
the protocol is  
  set to local(2), local file system (flash or disk) is used.  
  Different agents may support different transfer protocols  
  and the management application is expected to some how determine  
  which protocol is supported and use.";  
}
```

```
typedef ClmgmtLicenseActionState {
```

```
  type enumeration {
```

```
    enum "none" {
```

```
      value "1";
```

```
    }
```

```
    enum "pending" {
```

```
      value "2";
```

```
    }
```

```
    enum "inProgress" {
```

```
      value "3";
```

```
    }
```

```
    enum "successful" {
```

```
      value "4";
```

```
    }
```

```
    enum "partiallySuccessful" {
```

```
      value "5";
```

```
    }
```

```
    enum "failed" {
```

```
      value "6";
```

```
    }
```

```
  }
```

```
  description
```

```
    "The state of license action execution.
```

```
    none(1)          - action is not yet scheduled to be  
                      executed.
```

```
    pending(2)       - All the required parameters for the  
                      action are set and the action is  
                      scheduled  
to be executed.
```

```
    inProgress(3)    - action execution has started and is  
                      in progress.
```

```
    successful(4)     - action has completed successfully.
```

```
    partiallySuccessful(5) - action has completed, but was  
                          partially successful. Management  
                          application can query additional MIB  
                          objects to know what is successful  
                          and what has failed. These additional  
                          objects are listed in the  
                          description of the corresponding  
                          action tables.
```

```
    failed(6)        - action has failed.";  
  }
```



```

typedef ClmgmtLicenseActionFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "generalFailure" {
      value "2";
    }
    enum "transferProtocolNotSupported" {
      value
"3";
    }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidLicenseFilePath" {
      value "6";
    }
    enum "invalidLicenseFile" {
      value "7";
    }
    enum "invalidLicenseLine" {
      value "8";
    }
    enum "licenseAlreadyExists" {
      value "9";
    }
    enum "licenseNotValidForDevice" {
      value "10";
    }
    enum "invalidLicenseCount" {
      value "11";
    }
    enum "invalidLicensePeriod" {
      value "12";
    }
    enum "licenseInUse" {
      value "13";
    }
    enum "invalidLicenseStore" {
      value "14";
    }
    enum "licenseStorageFull" {
      value "15";
    }
  }
}

```

```

    }
    enum "invalidPermissionTicketFile" {
        value "16";
    }
    enum "invalidPermissionTicket" {
        value "17";
    }
    enum "invalidRehostTicketFile" {
        value "18";
    }
    enum "invalidRehostTicket"
{
    value "19";
}
    enum "invalidLicenseBackupFile" {
        value "20";
    }
    enum "licenseClearInProgress" {
        value "21";
    }
    enum "invalidLicenseEULAFile" {
        value "22";
    }
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1) - action execution has not
 started yet. If the action
 is completed and the action
 is successful, then also
 none(1) is returned to
 indicate that there are no
 errors.

generalFailure(2) - General licensing failure.
 This will be used for resource
 unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
 supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
 valid

invalidLicenseFilePath(6) - The license file path is not
 accessible.

invalidLicenseFile(7) - Contents of license file are

```

        not valid.
invalidLicenseLine(8)    - License string in the license
                           file is not valid.
licenseAlreadyExists(9)  - Management application is trying
                           to install a license that already
                           exists.
licenseNotValidForDevice(10) - This license is not valid for
                           the device/entPhysicalIndex
                           specified.
invalidLicenseCount(11)  - Invalid count for this counted
                           license.
invalidLicensePeriod(12) - Validity period is invalid for
                           this expiring license.
licenseInUse(13)         - License file is in use by a
                           feature/image.
invalidLicenseStore(14)  - License store is not valid.
licenseStorageFull(15)   - There is no more space in the
                           license storage.
invalidPermissionTicketFile(16) - The permission ticket file
                           path is not accessible.
invalidPermissionTicket(17) - The permission ticket file
                           contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is
                           not accessible.
invalidRehostTicket(19)  - The rehost ticket file contents

                           are not valid.
invalidLicenseBackupFile(20) - License backup store path
                           is not accessible.
licenseClearInProgress(21) - When license clear action is
                           in progress, license backup
                           action is not permitted to
                           avoid race conditions. This
                           error code is sent back in
                           response to a license backup
                           action when a license clear
                           action is in progress or in
                           pending state. Try again in few
                           seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible.";
}

```

```

container CISCO-LICENSE-MGMT-MIB {
  config false;

```

```

  container clmgmtLicenseConfiguration {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

```

```

leaf clmgmtNextFreeLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object contains appropriate value for
    clmgmtLicenseActionIndex that can be used to create
    an entry in clmgmtLicenseActionTable. The management application
    should read this object first and then use this as the
    value for clmgmtLicenseActionIndex to avoid collisions
    when creating entries in clmgmtLicenseActionTable.
    Following this approach does not guarantee collision free
    row creation, but will reduce the probability. The
    collision will happen if two management applications read this
    object at the same time and attempt to create an entry
    with this value at the same time. In this case, the
    management application whose request is processed after the first
    request will get an error and the process of reading this object
    and
    entry creation needs to be repeated.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
}
}

```

```

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

```

```

leaf clmgmtNextFreeDevCredExportActionIndex {
  type uint32;
  description
    "This object contains appropriate value for
    clmgmtDevCredExportActionIndex that can be used to create
    an entry in clmgmtDevCredExportActionTable. The management
    application should read this object first and then use this
    as the value for clmgmtDevCredExportActionIndex to avoid
    collisions when creating entries in
    clmgmtDevCredExportActionTable. Following this approach does
    not guarantee collision free row creation, but will reduce
    the probability. The collision will happen if two
    management applications read this object at the same time and
    attempt to create an entry
    with this value at the same time.
    In this case, the management application whose request is
    processed after the first request will get an error and the
    process of reading this object and entry creation needs to be

```

```

    repeated.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      the notifications related to usage of licenses. This object
      enables/disables sending following notifications:
        clmgmtLicenseExpired
        clmgmtLicenseExpiryWarning
        clmgmtLicenseUsageCountExceeded
        clmgmtLicenseUsageCountAboutToExceed
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
        clmgmtLicenseEvalRTUTransitionWarning
        clmgmtLicenseEvalRTUTransition";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
  }

  leaf clmgmtLicenseDeploymentNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      notifications related to license deployment. This object
      enables/disables sending following notifications:
        clmgmtLicenseInstalled
        clmgmtLicenseCleared
        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
  }

  leaf clmgmtLicenseErrorNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate

```

notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

```
    clmgmtLicenseNotEnforced";
smiv2:defval "true";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}
```

container clmgmtLicenseActionTable {

description

"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.

Once the request completes, the management application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";
```

list clmgmtLicenseActionEntry {

key "clmgmtLicenseActionIndex";

description

"An entry for each action that is being executed or was executed recently. The management application executes an action

by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the

action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtLicenseActionState`. If the action is still in `pending(2)` or in `inProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
 - c. `clmgmtLicenseServerAddress`
 - d. `clmgmtLicenseServerUsername`
 - e. `clmgmtLicenseServerPassword`
 - f. `clmgmtLicenseFile`
 - g. `clmgmtLicenseStore`
 - h. `clmgmtLicenseStopOnFailure`

- i. clmgmtLicenseAcceptEULA
- j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members within a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure

i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted

except when clmgmtLicenseAction is set

to pending(2). All entries are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```
leaf clmgmtLicenseActionIndex {
```

```
  type uint32 {
```

```
    range "1..4294967295";
```

```
  }
```

```
  description
```

```
    "This object uniquely identifies a row in
```

```

    clmgmtLicenseActionTable. The management application should choose
    this value by reading clmgmtNextFreeLicenseActionIndex
    while creating an entry in this table. If an entry already
    exists with this index, the creation of the entry will not
    continue and error will be returned. The management application
    should read the value of clmgmtNextFreeLicenseActionIndex
    again and retry with the new value for this object.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}

```

```

leaf clmgmtLicenseActionEntPhysicalIndex
{
    type entity-mib:PhysicalIndexOrZero;
    description
        "This object represents the entPhysicalIndex of the device
        where the action is being executed. This object is mainly
        used in devices where one device is acting as a master and
        rest of the devices as slaves. The master device is
        responsible for SNMP communication with the management
        application. Examples include stackable switches, devices
        with route processor and line card configuration. If this
        object is not set, the license action will be executed on
        the master device. Note: This object need not be set if
        there is a stand alone device";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

```

```

leaf clmgmtLicenseActionTransferProtocol {
    type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
    description
        "This object represents the transfer protocol to be used
        when copying files as specified in the following objects.
        1. clmgmtLicenseFile
        2. clmgmtLicensePermissionTicketFile
        3. clmgmtLicenseRehostTicketFile
        4. clmgmtLicenseBackupFile

        Note: This object need not be set if the all the files
        required for the action are in device's local file system.";
    smiv2:defval "none";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}

```

```

leaf clmgmtLicenseServerAddressType {

```

```

type inet-address:InetAddressType;
description
    "This object indicates the transport type of the
    address contained in clmgmtLicenseServerAddress object.
    This must be set when clmgmtLicenseActionTransferProtocol
    is not none(1) or local(2).";
smiv2:defval
    "unknown";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}

leaf clmgmtLicenseServerAddress {
    type inet-address:InetAddress;
    description
        "This object indicates the ip address of the server from
        which the files must be read or written to if
        clmgmtLicenseActionTransferProtocol is not none(1) or
        local(2).

        All bits as 0s or 1s for clmgmtLicenseServerAddress are not
        allowed.

        The format of this address depends on the value of the
        clmgmtLicenseServerAddressType object";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}

leaf clmgmtLicenseServerUsername {
    type snmp-framework:SnmpAdminString {
        length "0..96";
    }
    description
        "This object indicates the
remote user name for accessing
        files via ftp, rcp, sftp or scp protocols. This object must
        be set when the clmgmtLicenseActionTransferProtocol is
        ftp(4), rcp(5), scp(7) or sftp(8). If
        clmgmtLicenseActionTransferProtocol is rcp(5), the remote
        username is sent as the server username in an rcp command
        request sent by the system to a remote rcp server.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}

```

```

leaf clmgmtLicenseServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
    or sftp(8). Reading it returns
    a zero-length string for
    security reasons.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

leaf clmgmtLicenseFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the location of the license file
    on the server identified by clmgmtLicenseServerAddress. This
    object MUST be set to a valid value before or concurrently
    with setting the value of the clmgmtLicenseAction object to
    install(2). For other operations, the value of this
    object is not considered, it is irrelevant.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

leaf clmgmtLicenseStore {
  type uint32;
  description
    "This object represents the clmgmtLicenseStoreIndex
    of the
    license store to use within the device. The license store
    can be a local disk or flash. A device can have more than
    one license stores. If this object is not set, the license
    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

```

```

leaf clmgmtLicenseActionLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
  description
    "This object indicates the the license index of the license
    that is the subject of this action. This is used for
    identifying a license for performing actions specific to
    that license. This object need to be set only if
    clmgmtLicenseAction is set to clear(4). The value of this
    object is same as the clmgmtLicenseIndex
object in
  clmgmtLicenseInfoEntry for license that is subject of this
  action.";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file name of the permission
    ticket. This object need to be set only if
    clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions. The permission
    ticket is obtained from Cisco licensing portal to revoke
    a license. The management application must set this object
    to valid value before invoking the action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";

```

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates
the file where all the licenses in
the device need to be backed up. This object need to be set
only if clmgmtLicenseAction is set to backup(6) and the
management application must set the value of this object
to valid value before invoking action.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
stop if the action on a license fails. This object is
applicable only if there are more than one licenses
involved in an action.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

leaf clmgmtLicenseAction {
  type enumeration {
    enum "noOp" {
value "1";
    }
    enum "install" {
      value "2";
    }
    enum "clear" {
      value "3";
    }
    enum "processPermissionTicket" {
      value "4";
    }
  }
}

```

```

enum "regenerateLastRehostTicket" {
    value "5";
}
enum "backup" {
    value "6";
}
enum "generateEULA" {
    value "7";
}
}
description
"This object indicates the the command/action to be executed.

```

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.

```

processPermissionTicket(4)
Processes thee permission
ticket and generates and
exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the
last generated rehost
ticket.

```

```

backup(6)          Backs up all the licenses
installed currently onto a
backup store.

```

```

generateEULA(7)     Checks whether the licenses
in the license file need EULA
acceptance and uploads the
needed EULA contents to a file.";

```

```

smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.543.1.1.2.1.15";
}

```

```

leaf clmgmtLicenseActionState {
type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
description
"This object indicates the state of this license action.";

```

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

```

```

leaf clmgmtLicenseJobQPosition {
  type uint32;
  description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
    reading this object, the management application can make
    intelligent decision on whether to execute another
    action that it is planning on. For example, if there
    is already a license clear action in the queue in
    pending(2) state, management application can choose to

```

```

defer its license back up action to a later time. This
  object will return a value of 0 if the action is not in
  pending(2) state.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

```

```

leaf clmgmtLicenseActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for this license action
    failure. The value of this object is valid only when
    clmgmtLicenseActionState is failed(6).";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}

```

```

leaf clmgmtLicenseActionStorageType {
  type snmpv2-tc:StorageType;
  description
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";
smiv2:defval "volatile";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

```

```

leaf clmgmtLicenseActionRowStatus {
  type snmpv2-tc:RowStatus;
  description

```


"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion";

```
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}
```

```
leaf clmgmtLicenseAcceptEULA {
  type boolean;
  description
    "This object indicates whether the End User License Agreement
    needed for installing the licenses is accepted.
```

```
    true(1) - EULA is read and accepted
    false(2) - EULA is not accepted
```

```
    Management application should set this object to true(1) when
    installing licenses that need EULA acceptance.";
```

```
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}
```

```
leaf clmgmtLicenseEULAFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to
    be set only if clmgmtLicenseAction is set to generateEULA(7) and
    the management application must set the value of this object to
    valid value before invoking action.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}
```

}

container clmgmtLicenseActionResultTable {

description

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

list clmgmtLicenseActionResultEntry {

key "clmgmtLicenseActionIndex clmgmtLicenseNumber";

description

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license.

These entries are created immediately after action execution when the action involves multiple licenses.

These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

leaf clmgmtLicenseActionIndex {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionResultEntry/cisco-license-mgmt-mib:clmgmtLicenseActionIndex";

}

}

leaf clmgmtLicenseNumber {

type uint32 {

range "1..4294967295";

}

description

"This object indicates the sequence number of this license in the list of licenses on which the action is executed.

For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";

}

```

leaf clmgmtLicenseIndivActionState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of action on this
    individual license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}

leaf clmgmtLicenseIndivActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for action failure on this
    individual license";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
  description
    "This table contains information about all the license
    stores allocated on the device.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

  list clmgmtLicenseStoreInfoEntry {
    key "entPhysicalIndex clmgmtLicenseStoreIndex";
    description
      "An entry in clmgmtLicenseStoreInfoTable. Each entry
      contains information about a license store allocated
      on the device";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreIndex {
      type uint32 {
        range "1..4294967295";
      }
      description
        "This object uniquely identifies a license store within

```

```

    the device.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

leaf clmgmtLicenseStoreName {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the name of the license store
    within the device. It is a file in device's local file
    system i.e., either on a local disk or flash or some
    other storage media. For example, the value of this
    object can be 'disk1:lic_store_1.txt' or
    'flash:lic_store_2.txt';
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
}

leaf clmgmtLicenseStoreTotalSize {
  type uint32;
  units "bytes";
  description
    "This object indicates the total number of bytes that are
    allocated to the license store.";
  smiv2:max-access "read-only";
  smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
}

leaf clmgmtLicenseStoreSizeRemaining {
  type uint32;
  units "bytes";
  description
    "This object indicates the number of bytes still remaining
    to be used for new license installations in the license
    store.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
}
}

container clmgmtLicenseDeviceInfoTable {
  description
    "This table contains objects that provide licensing related
    information at the device level. Entries will exist

```

only for entities that support licensing. For example,
if it is a stand alone device and supports licensing,
then there will be only one entry in this table. If
it is stackable switch then there will be multiple
entries with one entry for each device in the stack.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

```
list
clmgtLicenseDeviceInfoEntry {
    key "entPhysicalIndex";
    description
        "An entry in clmgtLicenseDeviceInfoTable. Each entry
        contains device level licensing information for a device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgtDefaultLicenseStore {
        type uint32 {
            range "1..4294967295";
        }
        description
            "This object indicates the clmgtLicenseStoreIndex of
            default store in the device. There will be only one
            default license store per device. If no license store
            is specified during license install, this default license
            store will be used.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
    }
}
}
```

```
container clmgtLicenseInfoTable {
    description
        "This table contains information about all the licenses
        installed on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

    list clmgtLicenseInfoEntry {
        key "entPhysicalIndex clmgtLicenseStoreUsed clmgtLicenseIndex";
        description
            "An entry in clmgtLicenseInfoTable. Each entry contains
```

information about a license installed on the device. This entry gets created when a license is installed successfully. Management application can not create these entries directly, but will do so indirectly by executing license install action. Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```
leaf clmgmtLicenseStoreUsed {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}
```

```
leaf clmgmtLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
  description
    "This object uniquely identifies a license within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}
```

```
leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString
{
  length "0..128";
}
  description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
```

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version
    are: '1.0', '2.0'";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension"
  {
    value "2";
  }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
    enum "evalRightToUse" {
      value "8";
    }
    enum "rightToUse" {
      value "9";
    }
    enum "permanentRightToUse" {
      value "10";
    }
  }
}

```

```

    }
  }
  description
    "This object identifies type of license. Licenses may have
    validity period defined in terms of time duration that the
    license is valid for or it may be defined in terms of actual
    calendar dates. Subscription licenses are licenses that have
    validity period
defined in terms of calendar dates.

    demo(1)          - demo(evaluation license) license.
    extension(2)      - Extension(expiring) license.
    gracePeriod(3)    - Grace period license.
    permanent(4)      - permanent license, the license has no
                        expiry date.
    paidSubscription(5) - Paid subscription licenses are the
                        licenses
                        which are purchased by customers. These
                        licenses have a start date and end date
                        associated with them.
    evaluationSubscription(6)-Evaluation subscription licenses are
                        the trial licenses. These licenses
                        are node locked and it can be obtained
                        only once for an UDI. They are valid
                        based on calendar days. These licenses
                        have a start date and an end date
                        associated with them and are issued
                        once per UDI.
    extensionSubscription(7)- Extension subscription licenses are
                        similar to evaluation subscription
                        licenses but these licenses are issued
                        based on customer request. There are
                        no restrictions on the number of
                        licenses available for a UDI.
    evalRightToUse(8)  - Evaluation Right to use (RTU)
                        license.
    rightToUse(9)      - Right to use (RTU) license.
    permanentRightToUse(10) ? Right To Use license right after it is configured
                        and is valid for the lifetime of
the product.
                        This is a Right To Use license which is not in
                        evaluation mode for a limited time.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
  }

  leaf clmgmtLicenseCounted {

```



```

type boolean;
description
"This object indicates whether the license is counted
license.
true(1) - counted license
false(2) - uncounted license";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}

```

```

leaf clmgmtLicenseValidityPeriod {
type uint32;
units "seconds";
description
"This object indicates the time period the license is valid for.
This object is applicable only if clmgmtLicenseType is demo(1),
or extension(2) or gracePeriod(3) or evalRightToUse(8). The
object will return
0 for other license types.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

```

```

leaf clmgmtLicenseValidityPeriodRemaining {
type uint32;
units "seconds";
description
"This object indicates the time period remaining before the
license expires or transitions to rightToUse(9) license. This
object is applicable only if clmgmtLicenseType is demo(1), or
extension(2) or gracePeriod(3) or evalRightToUse(8). The object
will contain 0 for other license types.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}

```

```

leaf clmgmtLicenseExpiredPeriod {
type uint32;
units "seconds";
description
"This object indicates the elapsed time period since the license
expired. This object is applicable only if clmgmtLicenseType
is demo(1),
or extension(2) or gracePeriod(3). Also, this
value of this object will be valid only after the license
expires. The object will return 0 for other license types
or before the license expiry.";
smiv2:max-access "read-only";

```

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if
    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
    use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the user modifiable comments
    about the license. This object is initially populated
    with comments from the license file.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

```

}

leaf clmgmtLicenseStatus {

type enumeration {

enum "inactive" {

value "1";

}

enum "notInUse" {

value "2";

}

enum "inUse" {

value "3";

}

enum "expiredInUse" {

value "4";

}

enum "expiredNotInUse" {

value "5";

}

enum "usageCountConsumed" {

value "6";

}

}

description

"This object represents status of the license.

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4)

- license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";

}

leaf clmgmtLicenseStartDate {

type snmpv2-tc:DateAndTime;

description

"This object indicates the start date for a subscription license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only

```
when clmgmtLicenseType is paidSubscription(5),
    evaluationSubscription(6) or extensionSubscription (7).
    The object will contain an octet string of length 0 when it is
    not applicable.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}
```

```
leaf clmgmtLicenseEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the end date for a subscription license.
        This object is applicable only when clmgmtLicenseType is
        paidSubscription(5), evaluationSubscription(6) or
        extensionSubscription (7). The object will contain an octet
        string of length 0 when it is not applicable.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}
```

```
leaf clmgmtLicensePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This
object indicates the time period used for the
    Right to use (RTU) licenses. This object is applicable for all
    RTU licenses.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
}
}
```

```
container clmgmtLicensableFeatureTable {
    description
        "This table contains list of licensable features in the
        image. All the licensable features will have an entry each
        in this table irrespective of whether they are using any
        licenses currently. Entries in this table are created by
        the agent one for each licensable feature in the image.
        These entries remain in the table permanently and can not
        be deleted. Management application can not create or delete
```

```

    entries from this table.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

    list clmgmtLicensableFeatureEntry {
        key "entPhysicalIndex clmgmtFeatureIndex";
        description
            "An entry
in clmgmtLicensableFeatureTable. Each entry represents
    a licensable feature.";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type uint32 {
                range "1..4294967295";
            }
            description
                "This object uniquely identifies a licensable feature in
the device.";
            smiv2:max-access "not-accessible";
            smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
        }

        leaf clmgmtFeatureName {
            type snmp-framework:SnmpAdminString {
                length "0..128";
            }
            description
                "This object indicates the name of the licensable feature
in the device. Examples of feature names are: 'IPBASE',
'ADVIPSERVICE'";
            smiv2:max-access
"read-only";
            smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
        }

        leaf clmgmtFeatureVersion {
            type snmp-framework:SnmpAdminString {
                length "0..32";
            }
            description
                "This object indicates the version of the licensable

```

```

    feature in the device. Examples of feature versions
    are: '1.0' or '2.0';
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

```

```

leaf clmgmtFeatureValidityPeriodRemaining {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period remaining before
        the feature's license expires or transitions. This object is
        applicable only if clmgmtLicenseType of the license used by
        this feature is demo(1), or extension(2) or gracePeriod(3) or
        evalRightToUse(8).

```

```

        The object will contain 0 if
other types of license is used
        or if the feature does not use any license. If the
        feature is using multiple licenses, this period will
        represent the cumulative period remaining from all the
        licenses used by this feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

```

```

leaf clmgmtFeatureWhatIsCounted {
    type snmp-framework:SnmpAdminString {
        length "0..128";
    }
    description
        "This object represents the entity that is being counted
        by this feature. Examples of entities are IP Phones, number
        of sessions etc. This object is only applicable for
        features that use counting licenses. For other features,
        this object will return empty string.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}

```

```

leaf clmgmtFeatureStartDate {

```

```

    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the license start date of the feature.
        This object is applicable if at least one of the licenses used
        for this feature has a valid start date. The start date will
        be the earliest of the valid start dates of all the licenses

```

```

    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the license end date of the feature.
        This object is applicable if at least one of the licenses used
        for this feature has a valid end date. The end date will
        be the latest of the valid end dates
of all the licenses
        used for this feature. If none of the licenses used for this
        feature have a valid end date then this object will contain an
        octet string of length 0.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This object indicates the license period used for the feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

container clmgmtDevCredExportActionTable {
    description
        "A table for triggering device credentials export action.
        Management application must create this entry to trigger the
        export of device credentials from the device to a file.

        Once the request completes, the management application should
        retrieve the values of the objects
of interest, and then
        delete the entry. In order to prevent old entries from
        clogging the table, entries will be aged out, but an entry
        will never be deleted within 5 minutes of completion.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

    list clmgmtDevCredExportActionEntry {

```

key "clmgmtDevCredExportActionIndex";

description

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If

the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying

clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

leaf clmgmtDevCredExportActionIndex {

type uint32 {

range "1..4294967295";

}

description

"This object uniquely identifies a row in clmgmtDevCredExportActionTable. The management application chooses this value by reading clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table.

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";

}

leaf clmgmtDevCredEntPhysicalIndex {

type entity-mib:PhysicalIndexOrZero;

description

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device";

smiv2:defval "0";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";

}

leaf clmgmtDevCredTransferProtocol {

type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;

description

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

.";

smiv2:defval "none";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";

}

leaf clmgmtDevCredServerAddressType {

type inet-address:InetAddressType;

description

"This object indicates the transport type of the

```

address contained in clmgmtDevCredServerAddress object.
This must be set when clmgmtDevCredTransferProtocol
is not none(1) or local(2).";
smiv2:defval "unknown";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the the ip address of the server
    from which the files must be read or written to if
    clmgmtDevCredTransferProtocol is not none(1) or local(2).

```

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

```

The format of this address depends on the value of the
clmgmtDevCredServerAddressType object";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
}

```

```

description
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object
  must be set when the clmgmtDevCredTransferProtocol is
  ftp(4), rcp(5), scp(7) or sftp(8). If
  clmgmtDevCredTransferProtocol is rcp(5), the remote
  username is sent as the server username in an rcp command
  request sent by the system to a remote rcp server.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description

```

```

    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
    sftp(8). Reading it returns a zero-length string for
    security reasons.";
    smiv2:defaultval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs
    to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

Command	Remarks

noOp(1)	No operation will be performed.
getDeviceCredentials(2)	Exports device credentials";
smiv2:defaultval "noOp";	
smiv2:max-access "read-write";	
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";	
}	

```

leaf clmgmtDevCredCommandState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;

```

```

description
"This object indicates the state of the action that is
executed as a result of setting clmgmtDevCredRowStatus
to active(1).";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "unknownError" {
      value "2";
    }
    enum "transferProtocolNotSupported"
{
      value "3";
    }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidFile" {
      value "6";
    }
  }
}

```

description
 "This object indicates the the reason for device
 credentials export operation failure.

The value of this object is valid only when
 clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.
 If the action is completed and the
 action is successful, then also
 none(1) is returned to indicate that
 there are no errors.

unknownError(2) - reason for failure is unknown,
 operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
 given is not supported.

```

fileServerNotReachable(4)    - file server is not reachable.
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
                                valid
invalidFile(6) - The target file specified is not valid.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";
}

leaf clmgmtDevCredStorageType {
  type snmpv2-tc:StorageType;
  description
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";
  smiv2:defval "volatile";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
}

leaf clmgmtDevCredRowStatus {
  type snmpv2-tc:RowStatus;
  description
    "This object indicates the the status of this table entry.
    Once the entry status is set to active(1), the associated
    entry cannot be modified until the action completes
    (clmgmtDevCredCommandStatus is set to a value
    other than inProgress(3)). Once the action completes
    the only operation possible after this is to delete
    the row.

    clmgmtDevCredExportFile is a mandatory object to be
    set when creating this entry.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
}
}
}
}

notification clmgmtLicenseExpired {
  description
    "This notification is sent, when a feature license
    expires. This notification will be sent continuously
    every week even after the expiry to alert the
    management
    application.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";
}

```

```

container object-1 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

```

```

    }
  }
}

```

```

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification
    when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

```

```

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
}

```

```

  container object-2 {

```

```

    leaf entPhysicalIndex {
      type leafref {

```

```

    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureValidityPeriodRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
    }
  }
}

```



```

}

notification clmgmtLicenseUsageCountExceeded {
  description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref
    {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

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mib:entPhysicalIndex";
    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
}
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {

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    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseMaxUsageCount {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureWhatIsCounted {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
    }
  }
}

container object-5 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseComments {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
}

notification clmgmtLicenseUsageCountAboutToExceed
{
    description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached 80% of clmgmtLicenseMaxUsageCount for a counting
    license. This is a warning notification to the management
    application that very soon the maximum count will be reached
    and after that the device will not allow new entities to
    make use of this license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }
    }
}

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

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mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
        }
    }
}

```

```

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseUsageCountRemaining {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
        }
    }
}

container object-5 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref
    {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

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```

mib:clmgmtFeatureIndex";
    }
}

    leaf clmgmtFeatureWhatIsCounted {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
        }
    }
}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

```



```

notification clmgmtLicenseInstalled {
  description
    "This notification is sent when a license is installed
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

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```

    }
}

leaf clmgmtLicenseStoreUsed {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type
        leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {

```

```

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

leaf clmgmtLicenseType {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
}

container
object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

```

```

    }
}

notification clmgmtLicenseCleared {
    description
        "This notification is sent when a license is cleared
        successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtLicenseStoreUsed {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
            }
        }

        leaf clmgmtLicenseFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
            }
        }
    }

    container object-2 {

        leaf entPhysicalIndex {
            type leafref {

```

```

    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}
}

```

```

container object-3 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```

```

  leaf clmgmtLicenseIndex {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path
"/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

```

```

    }
  }
}

notification clmgmtLicenseRevoked {
  description
    "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {

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    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtLicenseStoreUsed {

  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }
}

```



```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseType {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

```

```

    }
  }
}

notification clmgmtLicenseEULAAccepted {
  description
    "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {

      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {

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    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseNotEnforced {
  description
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
    to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

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mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf
entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

notification clmgmtLicenseSubscriptionExpiryWarning {
  description
    "This notification is sent when a subscription license of a
    feature is about to expire. This notification will be sent as
    per the following
  schedule:
    Once a week for the last eight weeks
    Once a day for the last week
    Once a hour for the last day";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

  container object-1 {

    leaf entPhysicalIndex {

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    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

```

```

}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf
clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
        }
    }
}

notification clmgmtLicenseSubscriptionExtExpiryWarning {
    description
    "This notification is sent when the subscription license end
    date of a feature is reached but extension period is left. This
    notification will be sent once a day after the license end date
    is reached.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {

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    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {

      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

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mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureEndDate {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
    }
}

notification clmgmtLicenseSubscriptionExpired {
    description
        "This notification will be sent after a subscription license
        of a feature completely expires. It will be sent once a day
        after the license has completely expired";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureName {
            type leafref {

```



```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
  }
}

```

```

container object-2 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

```

```

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
}

```

```

container object-3 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

```

```

    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";

      }
    }
  }
}

notification clmgmtLicenseEvalRTUTransitionWarning {
  description
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureValidityPeriodRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
    }
  }
}

```

```

    }
  }
}

notification clmgmtLicenseEvalRTUTransition {
  description
    "This notification is sent, when a feature license transitions
    from a evaluation to a
    Right to use (RTU) license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {

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    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

```

```

smiv2:alias "ciscoLicenseMgmtCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}

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-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
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--
-- *****

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue
        FROM SNMPv2-TC

```

SnmpAdminString
FROM SNMP-FRAMEWORK-MIB
entPhysicalIndex
FROM ENTITY-MIB
ciscoMgmt
FROM CISCO-SMI;

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "200710160000Z"
ORGANIZATION "Cisco Systems Inc."
CONTACT-INFO
"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive
San Jose, CA 95134
USA
Tel: +1 800 553 -NETS
E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level. This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advipservicesk9 license.

- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define
the image level.

If the device is running at advipservices
image level, then the boot image level will
be 'advipservices'."

SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define
the list of license names.

If multiple licenses
are present then this string will contain all
the licenses separated by the ',' character.

If the license required to run a device at
advipservices image level is advipservices and
advsecurity, then the license name list will be
'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of
current and next boot image level. This table contains
entries for each software module running in an image
loaded in the device. The software module is identified by
cilmModuleName and the device is identified by
entPhysicalIndex."

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license."

```
INDEX      {
            entPhysicalIndex,
            cilmModuleName
          }
 ::= { cilmBootImageLevelTable 1 }
```

```
CilmBootImageLevelEntry ::= SEQUENCE {
    cilmModuleName      SmpAdminString,
    cilmCurrentImageLevel
        BootImageLevel,
    cilmConfiguredBootImageLevel BootImageLevel,
    cilmNextBootImageLevel  BootImageLevel,
    cilmCurrentLicenseStoreIndex Unsigned32,
    cilmCurrentLicenseIndex   Unsigned32,
    cilmNextBootLicenseStoreIndex Unsigned32,
    cilmNextBootLicenseIndex   Unsigned32
}
```

cilmModuleName OBJECT-TYPE

SYNTAX SmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality.

For example, in a wireless image there can be two modules

- a base image module and a wireless module."

```
::= { cilmBootImageLevelEntry 1 }
```

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the current image level that the module is running."

::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability."

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot

image level is determined based on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

INDEX {
 entPhysicalIndex,
 cilmModuleName,
 cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

 cilmImageLicenseMapIndex Unsigned32,
 cilmImageLicenseImageLevel BootImageLevel,
 cilmImageLicenseName LicenseNameList,
 cilmImageLicensePriority Unsigned32

}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running index used to identify an entry of this table."

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which a module can be run. A module can be run at different image levels. An entry will be created in this table for every module and image level combination."

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure the license."

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specify whether or not a notification should be generated on the detection of change in next boot image level.

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered."

REFERENCE

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document."

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {
 cilmCurrentImageLevel,
 cilmConfiguredBootImageLevel
}

STATUS current

DESCRIPTION

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel

```

        and cilmConfiguredBootImageLevel objects respectively."
::= { ciscoImageLicenseMgmtMIBNotifs 1 }
-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 2 }

cilmModuleCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "Compliance statement for Cisco Image level license mgmt MIB."
    MODULE      -- this module
    MANDATORY-GROUPS {
        cilmAdminGroup,
        cilmNotifGroup
    }

    GROUP      cilmOperGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license are supported."
    ::= { cilmModuleCompliances 1 }

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,
        cilmNextBootImageLevel,
        cilmCurrentLicenseStoreIndex,
        cilmCurrentLicenseIndex,
        cilmNextBootLicenseStoreIndex,
        cilmNextBootLicenseIndex,
        cilmEULAAccepted,
        cilmImageLevelChangedNotif
    }
    STATUS      current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

```



```

cilmOperGroup OBJECT-GROUP
    OBJECTS      {
        cilmImageLicenseImageLevel,
        cilmImageLicenseName,
        cilmImageLicensePriority
    }
    STATUS        current
    DESCRIPTION
        "Objects for getting current image level configuration data."
        ::= { cilmModuleGroups 2 }

cilmNotifGroup NOTIFICATION-GROUP
    NOTIFICATIONS { cilmBootImageLevelChanged }
    STATUS        current
    DESCRIPTION
        "Objects for getting current image level configuration data."
        ::= { cilmModuleGroups 3 }

END
-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue,
    RowStatus,
    StorageType,
    DateAndTime
        FROM SNMPv2-TC

```

SnmpAdminString
FROM SNMP-FRAMEWORK-MIB
entPhysicalIndex,
PhysicalIndexOrZero
FROM ENTITY-MIB
InetAddressType,
InetAddress
FROM INET-ADDRESS-MIB
ciscoMgmt
FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"
ORGANIZATION "Cisco Systems Inc."
CONTACT-INFO
"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.
The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a
device. It comprises of product ID, version ID and serial
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device
identifiers in the system. For example, the license
can be locked to the UDI value of one of the devices
in the system. Locking a license to an UDI guarantees
that the license will not be moved to a device with a

different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product. User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of

the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the

management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE

& EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
evalRightToUse
rightToUse
- o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
- o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
paidSubscription
evaluationSubscription
extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
clmgmtLicenseStartDate
clmgmtLicenseEndDate
- o Added following
objects to clmgmtLicensableFeatureTable
clmgmtFeatureStartDate
clmgmtFeatureEndDate

- o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
 - clmgmtLicenseSubscriptionGroup
 - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

 "Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

 "A unique value, for each license in the managed system.

 It is not necessary to have values assigned contiguously.

 The value for each license must remain constant

 at least from one re-initialization of the entity's

 network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex convention. The latter defines a greater than zero value used to identify a license in the managed system.

This

extension permits the additional value of zero. The value zero is object-specific and must therefore be defined as part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown."

SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."

SYNTAX INTEGER {
 none(1),
 local(2),
 tftp(3),
 ftp(4),
 rcp(5),
 http(6),
 scp(7),
 sftp(8)
 }

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

none(1) - action is not yet scheduled to be
 executed.

pending(2) - All the required parameters for the
 action are set and the action is
 scheduled to be executed.

inProgress(3) - action execution has started and is
 in progress.

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
partially successful. Management
application can query additional MIB

objects to know what is successful
and what has failed. These additional
objects are listed in the
description of the corresponding
action tables.

failed(6) - action has failed."

```
SYNTAX      INTEGER {  
    none(1),  
    pending(2),  
    inProgress(3),  
    successful(4),  
    partiallySuccessful(5),  
    failed(6)  
}
```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for
all the license actions.

none(1) - action execution has not
started yet. If the action
is
completed and the action
is successful, then also
none(1) is returned to
indicate that there are no
errors.

generalFailure(2) - General licensing failure.
This will be used for resource
unavailability failures.
Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not
supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidLicenseFilePath(6) - The license file path is not
accessible.

invalidLicenseFile(7) - Contents of license file are

not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

SYNTAX INTEGER {
 none(1),
 generalFailure(2),
 transferProtocolNotSupported(3),
 fileServerNotReachable(4),
 unrecognizedEntPhysicalIndex(5),

```

        invalidLicenseFilePath(6),
        invalidLicenseFile(7),
        invalidLicenseLine(8),
        licenseAlreadyExists(9),
        licenseNotValidForDevice(10),
        invalidLicenseCount(11),

        invalidLicensePeriod(12),
        licenseInUse(13),
        invalidLicenseStore(14),
        licenseStorageFull(15),
        invalidPermissionTicketFile(16),
        invalidPermissionTicket(17),
        invalidRehostTicketFile(18),
        invalidRehostTicket(19),
        invalidLicenseBackupFile(20),
        licenseClearInProgress(21),
        invalidLicenseEULAFile(22)
    }

```

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device. Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtLicenseActionRowStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtLicenseActionRowStatus` to `destroy(6)` when `clmgtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgtLicenseActionState`. If the action is still in `pending(2)` or in `inProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgtLicenseActionTransferProtocol`
- b. `clmgtLicenseServerAddressType`
- c. `clmgtLicenseServerAddress`
- d. `clmgtLicenseServerUsername`
- e. `clmgtLicenseServerPassword`
- f. `clmgtLicenseFile`
- g. `clmgtLicenseStore`
- h. `clmgtLicenseStopOnFailure`
- i. `clmgtLicenseAcceptEULA`
- j. `clmgtLicenseAction`

`clmgtLicenseActionEntPhysicalIndex` need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

`clmgtLicenseStore` need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be

installed on multiple devices (for example to multiple members within a stack), then value of `clmgtLicenseStore` is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. `clmgtLicenseActionEntPhysicalIndex`
- b. `clmgtLicenseActionLicenseIndex`
- c. `clmgtLicenseStore`
- d. `clmgtLicenseAction`

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. `clmgtLicenseActionTransferProtocol`
- b. `clmgtLicenseServerAddressType`
- c. `clmgtLicenseServerAddress`
- d. `clmgtLicenseServerUsername`
- e. `clmgtLicenseServerPassword`
- f. `clmgtLicensePermissionTicketFile`
- g. `clmgtLicenseRehostTicketFile`
- h. `clmgtLicenseStopOnFailure`
- i. `clmgtLicenseAction`

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. `clmgtLicenseActionTransferProtocol`
- b. `clmgtLicenseServerAddressType`
- c. `clmgtLicenseServerAddress`
- d. `clmgtLicenseServerUsername`
- e. `clmgtLicenseServerPassword`
- f. `clmgtLicensePermissionTicketFile`
- g. `clmgtLicenseRehostTicketFile`
- h. `clmgtLicenseStopOnFailure`
- i. `clmgtLicenseAction`

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. `clmgtLicenseActionEntPhysicalIndex`
- b. `clmgtLicenseActionTransferProtocol`
- c. `clmgtLicenseServerAddressType`
- d. `clmgtLicenseServerAddress`
- e. `clmgtLicenseServerUsername`

- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType

- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX      { clmgmtLicenseActionIndex }
 ::= { { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex      Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType  InetAddressType,
    clmgmtLicenseServerAddress      InetAddress,
    clmgmtLicenseServerUsername      SnmpAdminString,
    clmgmtLicenseServerPassword      SnmpAdminString,
    clmgmtLicenseFile                SnmpAdminString,
    clmgmtLicenseStore                Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile      SnmpAdminString,
    clmgmtLicenseBackupFile              SnmpAdminString,
    clmgmtLicenseStopOnFailure           TruthValue,
    clmgmtLicenseAction                  INTEGER,
```

```

    clmgmtLicenseActionState      ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition     Unsigned32,
    clmgmtLicenseActionFailCause  ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType StorageType,
    clmgmtLicenseActionRowStatus  RowStatus,
    clmgmtLicenseAcceptEULA       TruthValue,
    clmgmtLicenseEULAFile         SnmpAdminString
}

```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this
object is not set, the license action will be executed on
the master device. Note: This object need not be set if
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object.

This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the

license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket

and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the

value of this object

to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
install(2),
clear(3),
processPermissionTicket(4),
regenerateLastRehostTicket(5),
backup(6),
generateEULA(7)
}

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission ticket and generates and exports rehost ticket.
regenerateLastRehostTicket(5)	Generates and exports the last generated rehost ticket.
backup(6)	Backs up all the licenses installed currently onto a backup store.
generateEULA(7)	Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file."

DEFVAL { noOp }

::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By

reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries

will be aged out, but an

entry will never be deleted within 5 minutes of
completion"

::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the End User License Agreement
needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

Management application should set this object to true(1) when
installing licenses that need EULA acceptance."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the End User License
Agreements (EULAs) need to be exported to. This object need
to

be set only if clmgmtLicenseAction is set to generateEULA(7) and
the management application must set the value of this object to
valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 22 }

-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains results of license action if the
license action involves multiple licenses. Entries in this
table are not created for actions where there is
only license that is subject of the action. For
example, if there are 3 licenses in a license file

when executing license install action, 3 entries will
be created in this table, one for each license."
::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license. These entries are created immediately after action execution when the action involves multiple licenses. These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

INDEX {
clmgmtLicenseActionIndex,
clmgmtLicenseNumber
}

::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {

clmgmtLicenseNumber Unsigned32,
clmgmtLicenseIndivActionState ClmgmtLicenseActionState,
clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause

}

clmgmtLicenseNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates the sequence number of this license in the list of licenses on which the action is executed. For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file."

::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of action on this

```

        individual license."
 ::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionFailCause
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the reason for action failure
on this
    individual license"
 ::= { clmgmtLicenseActionResultEntry 3 }

-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE
SYNTAX      SEQUENCE OF ClmgmtLicenseStoreInfoEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains information about all the license
stores allocated on the device."
 ::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE
SYNTAX      ClmgmtLicenseStoreInfoEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An entry in clmgmtLicenseStoreInfoTable. Each entry
contains information about a license store allocated
on the device"
INDEX       {
            entPhysicalIndex,
            clmgmtLicenseStoreIndex
            }
 ::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
    clmgmtLicenseStoreIndex
    Unsigned32,
    clmgmtLicenseStoreName      SnmpAdminString,
    clmgmtLicenseStoreTotalSize Unsigned32,
    clmgmtLicenseStoreSizeRemaining Unsigned32
}

clmgmtLicenseStoreIndex OBJECT-TYPE

```

SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This object uniquely identifies a license store within
 the device."
 ::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE
 SYNTAX SnmpAdminString (SIZE (0..255))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates the name of the license store
 within the device. It is a file in device's local file
 system i.e., either on a local disk or flash or some
 other storage media. For example, the value of this
 object can be 'disk1:lic_store_1.txt' or
 'flash:lic_store_2.txt'
 ::= { clmgmtLicenseStoreInfoEntry
 2 }

clmgmtLicenseStoreTotalSize OBJECT-TYPE
 SYNTAX Unsigned32
 UNITS "bytes"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates the total number of bytes that are
 allocated to the license store."
 ::= { clmgmtLicenseStoreInfoEntry 3 }

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE
 SYNTAX Unsigned32
 UNITS "bytes"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates the number of bytes still remaining
 to be used for new license installations in the license
 store."
 ::= { clmgmtLicenseStoreInfoEntry 4 }

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains objects that provide licensing related information at the device level. Entries will exist only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack."
 ::= { clmgmtLicenseInformation 2 }

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseDeviceInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device."
 INDEX { entPhysicalIndex }
 ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
 clmgmtDefaultLicenseStore Unsigned32
 }

clmgmtDefaultLicenseStore OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates the clmgmtLicenseStoreIndex of default store in the device. There will be only one default license store per device. If no license store is specified during license install, this default license store will be used."
 ::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION

"This table contains information about all the licenses installed on the device."

::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseInfoTable. Each entry contains information about a license installed on the device. This entry gets created when

a license is installed successfully.

Management application can not create these entries directly, but will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

INDEX {
 entPhysicalIndex,
 clmgmtLicenseStoreUsed,
 clmgmtLicenseIndex
}

::= { clmgmtLicenseInfoTable 1 }

ClmgmtLicenseInfoEntry ::= SEQUENCE {

 clmgmtLicenseStoreUsed Unsigned32,
 clmgmtLicenseIndex ClmgmtLicenseIndex,
 clmgmtLicenseFeatureName SnmpAdminString,
 clmgmtLicenseFeatureVersion SnmpAdminString,
 clmgmtLicenseType INTEGER,
 clmgmtLicenseCounted TruthValue,
 clmgmtLicenseValidityPeriod Unsigned32,
 clmgmtLicenseValidityPeriodRemaining Unsigned32,
 clmgmtLicenseExpiredPeriod Unsigned32,
 clmgmtLicenseMaxUsageCount Unsigned32,
 clmgmtLicenseUsageCountRemaining Unsigned32,
 clmgmtLicenseEULAStatus TruthValue,
 clmgmtLicenseComments SnmpAdminString,
 clmgmtLicenseStatus INTEGER,
 clmgmtLicenseStartDate DateAndTime,
 clmgmtLicenseEndDate DateAndTime,
 clmgmtLicensePeriodUsed Unsigned32

}

clmgmtLicenseStoreUsed OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."

::= { clmgmtLicenseInfoEntry
1 }

clmgmtLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license within the device."

::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'."

::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the feature that is using or can use this license. Examples of feature version are: '1.0', '2.0'"

::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE

SYNTAX INTEGER {
demo(1),
extension(2),
gracePeriod(3),
permanent(4),
paidSubscription(5),
evaluationSubscription(6),
extensionSubscription(7),

```

        evalRightToUse(8),
        rightToUse(9),
        permanentRightToUse(10)
    }
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
    "This object identifies type of license. Licenses may have
    validity period defined in terms of time duration that the
    license is valid for or it may be defined in terms of actual
    calendar dates. Subscription licenses are licenses that have
    validity period defined in terms of calendar dates.

demo(1)
    - demo(evaluation license) license.
extension(2)    - Extension(expiring) license.
gracePeriod(3)  - Grace period license.
permanent(4)    - permanent license, the license has no
                  expiry date.
paidSubscription(5) - Paid subscription licenses are the
                  licenses
                      which are purchased by customers. These
                      licenses have a start date and end date
                      associated with them.
evaluationSubscription(6)-Evaluation subscription licenses are
                      the trial licenses. These licenses
                      are node locked and it can be obtained
                      only once for an UDI. They are valid
                      based on calendar days. These licenses
                      have a start date and an end date

                      associated with them and are issued
                      once per UDI.
extensionSubscription(7)- Extension subscription licenses are
                      similar to evaluation subscription
                      licenses but these licenses are issued
                      based on customer request. There are
                      no restrictions on the number of
                      licenses available for a UDI.
evalRightToUse(8)    - Evaluation Right to use (RTU)
                      license.
rightToUse(9)        - Right to use (RTU) license.
permanentRightToUse(10) ? Right To Use license right after it is configured
                      and is valid for the lifetime of the product.
                      This is a Right To Use license which is not in
                      evaluation mode for a limited time."

```

::=

{ clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the license is counted license.

true(1) - counted license

false(2) - uncounted license"

::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period the license is valid for.

This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will return 0 for other license types."

::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this

value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated

with comments from the license file."
::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {
 inactive(1),
 notInUse(2),
 inUse(3),
 expiredInUse(4),
 expiredNotInUse(5),
 usageCountConsumed(6)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4) - license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object
indicates the start date for a subscription
license. It is optional for subscription licenses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only
when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is
not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license.

This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry
16 }

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

```
INDEX      {
            entPhysicalIndex,
            clmgmtFeatureIndex
          }
 ::= { clmgmtLicensableFeatureTable 1 }
```

```
ClmgmtLicensableFeatureEntry ::= SEQUENCE {
    clmgmtFeatureIndex      Unsigned32,
    clmgmtFeatureName       SnmpAdminString,
    clmgmtFeatureVersion    SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted SnmpAdminString,
    clmgmtFeatureStartDate  DateAndTime,
    clmgmtFeatureEndDate    DateAndTime,
    clmgmtFeaturePeriodUsed Unsigned32
}
```

clmgmtFeatureIndex OBJECT-TYPE

```
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object uniquely identifies a licensable feature in
    the device."
 ::= { clmgmtLicensableFeatureEntry 1 }
```

clmgmtFeatureName OBJECT-TYPE

```
SYNTAX      SnmpAdminString (SIZE (0..128))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'"
 ::= { clmgmtLicensableFeatureEntry 2 }
```

clmgmtFeatureVersion OBJECT-TYPE

```
SYNTAX      SnmpAdminString (SIZE (0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the version of the licensable
    feature in the device. Examples
```

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."
::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature.
This object is applicable if at least one of the licenses used
for this feature has a valid end date. The end date will
be the latest of the valid end dates of all the licenses
used for this feature. If none of the licenses used for this
feature have a valid end date then this object will contain an
octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for
clmgmtDevCredExportActionIndex that can be used to create
an entry in clmgmtDevCredExportActionTable. The management
application should read this object first and then use this
as the value for clmgmtDevCredExportActionIndex to avoid
collisions when creating entries in
clmgmtDevCredExportActionTable. Following this approach does
not guarantee collision free row creation, but will reduce
the probability. The collision will happen if two
management applications read this object at the same time and
attempt to create an entry with this value at the same time.
In this case, the management application whose request is

processed after the first request
 will get an error and the
 process of reading this object and entry creation needs to be
 repeated."
 ::= { clmgmtLicenseDeviceInformation 1 }
 -- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION

"A table for triggering device credentials export action.
 Management application must create this entry to trigger the
 export of device credentials from the device to a file.

Once the request completes, the management application should
 retrieve the values of the objects of interest, and then
 delete the entry. In order to prevent old entries from
 clogging the table, entries will be aged out, but an entry
 will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION

"An entry for each device credential export action that
 is being executed or was executed recently. The management
 application triggers the export by creating an entry in this
 table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus
 to createAndGo(4) and all other required objects to valid
 values in a single SNMP SET request. If all the values
 are valid, the device creates the entry and executes the
 action. If the SET request fails, the entry will not be
 created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to
 createAndWait(5) to create an entry. Management application
 can set all other required objects to valid
 values in more than one SNMP SET request. If SET request
 for any of the objects fails, management application can set
 just only that object. Once all the required objects

are set to valid values, management application triggers action execution by setting `clmgmtDevCredExportActionStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtDevCredExportActionStatus` to `destroy(6)` when `clmgmtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtDevCredCommandState`. If the action is still in `pending(2)` or `InProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtDevCredCommandFailCause`.

Entry can be deleted except when `clmgmtLicenseAction` is set to `InProgress(3)`. All entries in this table are volatile and are cleared on agent reset."

```
INDEX      { clmgmtDevCredExportActionIndex }
::= { clmgmtDevCredExportActionTable 1 }
```

```
ClmgmtDevCredExportActionEntry ::= SEQUENCE {
    clmgmtDevCredExportActionIndex Unsigned32,
    clmgmtDevCredEntPhysicalIndex  PhysicalIndexOrZero,
    clmgmtDevCredTransferProtocol  ClmgmtLicenseTransferProtocol,
    clmgmtDevCredServerAddressType InetAddressType,
    clmgmtDevCredServerAddress     InetAddress,
    clmgmtDevCredServerUsername    SnmpAdminString,
    clmgmtDevCredServerPassword    SnmpAdminString,
    clmgmtDevCredExportFile        SnmpAdminString,
    clmgmtDevCredCommand           INTEGER,
    clmgmtDevCredCommandState      ClmgmtLicenseActionState,
    clmgmtDevCredCommandFailCause  INTEGER,
    clmgmtDevCredStorageType       StorageType,
    clmgmtDevCredRowStatus         RowStatus
}
```

`clmgmtDevCredExportActionIndex` OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in `clmgmtDevCredExportActionTable`. The management application chooses this value by reading `clmgmtNextFreeDevCredExportActionIndex` while creating an

entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object. This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying

a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
getDeviceCredentials(2)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the command to be executed.

Command	Remarks

noOp(1)	No operation will be performed.

getDeviceCredentials(2)	Exports device credentials"

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

SYNTAX INTEGER {
none(1),
unknownError(2),
transferProtocolNotSupported(3),
fileServerNotReachable(4),
unrecognizedEntPhysicalIndex(5),

invalidFile(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the the reason for device
credentials export operation failure.

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no operation is
performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex

is not

valid

invalidFile(6) - The target file specified is not valid."

::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes

clmgmtDevCredCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row.

clmgmtDevCredExportFile is a mandatory object to be set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired
clmgmtLicenseExpiryWarning
clmgmtLicenseUsageCountExceeded
clmgmtLicenseUsageCountAboutToExceed
clmgmtLicenseSubscriptionExpiryWarning
clmgmtLicenseSubscriptionExtExpiryWarning
clmgmtLicenseSubscriptionExpired
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled
clmgmtLicenseCleared
clmgmtLicenseRevoked
clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE
 SYNTAX TruthValue
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION
 "This object indicates whether the device should generate
 notifications related to error conditions in enforcing
 licensing. This object
 enables/disables sending following
 notifications:
 clmgmtLicenseNotEnforced"
 DEFVAL { true }
 ::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
 OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion
 }
 STATUS current
 DESCRIPTION
 "This notification is sent, when a feature license
 expires. This notification will be sent continuously
 every week even after the expiry to alert the management
 application."
 ::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
 OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
 }
 STATUS current
 DESCRIPTION
 "This notification is sent when a license is about to

 expire. This notification will go out multiple times.
 First notification goes out when expiry day is 4 weeks
 ahead, second notification when expiry day is 3 weeks
 ahead, third notification when expiry day is 2 weeks
 ahead. This notification will go out daily in the
 last week of license expiry."
 ::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE

```
OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseMaxUsageCount,
    clmgmtFeatureWhatIsCounted,
    clmgmtLicenseComments
}

STATUS      current

DESCRIPTION
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license."
::= { ciscoLicenseMgmtMIBNotifs 3 }
```

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```
OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseMaxUsageCount,
    clmgmtLicenseUsageCountRemaining,
    clmgmtFeatureWhatIsCounted,
    clmgmtLicenseComments
}

STATUS      current

DESCRIPTION
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached 80% of clmgmtLicenseMaxUsageCount for a counting
    license. This is a warning notification to the management
    application that very soon the maximum count will be reached
    and after that the device will not allow new entities to
    make use of this license."
::= { ciscoLicenseMgmtMIBNotifs 4 }
```

clmgmtLicenseInstalled NOTIFICATION-TYPE

```
OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,

    clmgmtLicenseType,
    clmgmtLicenseComments
}

STATUS      current

DESCRIPTION
    "This notification is sent when a license is installed
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 5 }
```

clmgmtLicenseCleared NOTIFICATION-TYPE


```

OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseType,
    clmgmtLicenseComments
}
STATUS       current
DESCRIPTION
    "This notification is sent when a license is cleared
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 6 }

```

clmgmtLicenseRevoked NOTIFICATION-TYPE

```

OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseType,
    clmgmtLicenseComments
}
STATUS
    current
DESCRIPTION
    "This notification is sent when a license is revoked
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 7 }

```

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

```

OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS       current
DESCRIPTION
    "This notification is sent when a user accepts End User
    License Agreement (EULA) for a license."
::= { ciscoLicenseMgmtMIBNotifs 8 }

```

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

```

OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS       current
DESCRIPTION
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically to indicate that there is no

```

license installed for this feature and it needs to
be done as soon as possible."
::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"This notification is sent when a subscription license of a
feature is about to expire. This notification will be sent as
per the following schedule:
Once a week for the last eight weeks
Once a day for the last week
Once a hour for the last day"

::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS

current

DESCRIPTION

"This notification is sent when the subscription license end
date of a feature is reached but extension period is left. This
notification will be sent once a day after the license end date
is reached."

::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"This notification will be sent after a subscription license
of a feature completely expires. It will be sent once a day
after the license has completely expired"

::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion,
            clmgmtFeatureValidityPeriodRemaining
        }
```

STATUS current

DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU) license transition is about to happen. The first notification will be sent 10 days before the transition and second notification will be sent 5 days before the transition."

::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion
        }
```

STATUS current

DESCRIPTION

"This notification is sent, when a feature license transitions from a evaluation to a Right to use (RTU) license."

::= { ciscoLicenseMgmtMIBNotifs 14 }

-- Conformance

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBConform 2 }

ciscoLicenseMgmtCompliance

MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"Compliance statement for Cisco license mgmt MIB."

MODULE -- this module

```
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
```

```

        clmgmtLicenseDeploymentNotifGroup,
        clmgmtLicenseErrorNotifGroup
    }

GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."
::= { ciscoLicenseMgmtCompliances 1 }

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
STATUS      current
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."

GROUP      clmgmtLicenseSubscriptionGroup
DESCRIPTION
    "This object group is mandatory for all devices
that
    support subscription licensing."

GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support subscription licensing."

GROUP      clmgmtLicenseRTUGroup
DESCRIPTION
    "This object group is mandatory for all devices that
    support Right to Use (RTU) licensing."

```

GROUP clmgmtLicenseRTUUsageNotifGroup

DESCRIPTION

"This notification group is mandatory for all devices that support Right to use (RTU) licensing."

::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP

OBJECTS {

 clmgmtNextFreeLicenseActionIndex,
 clmgmtLicenseActionEntPhysicalIndex,
 clmgmtLicenseActionTransferProtocol,
 clmgmtLicenseServerAddressType,
 clmgmtLicenseServerAddress,
 clmgmtLicenseServerUsername,
 clmgmtLicenseServerPassword,
 clmgmtLicenseFile,
 clmgmtLicenseStore,
 clmgmtLicenseActionLicenseIndex,
 clmgmtLicensePermissionTicketFile,
 clmgmtLicenseRehostTicketFile,
 clmgmtLicenseBackupFile,
 clmgmtLicenseStopOnFailure,
 clmgmtLicenseAction,
 clmgmtLicenseActionState,
 clmgmtLicenseJobQPosition,
 clmgmtLicenseActionFailCause,
 clmgmtLicenseActionStorageType,
 clmgmtLicenseActionRowStatus,
 clmgmtLicenseIndivActionState,
 clmgmtLicenseIndivActionFailCause,
 clmgmtLicenseAcceptEULA,
 clmgmtLicenseEULAFile

 }

STATUS current

DESCRIPTION

"A collection of objects for performing license deployment i.e., license installation, clear and revoke"

::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

OBJECTS {

 clmgmtLicenseStoreName,
 clmgmtLicenseStoreTotalSize,
 clmgmtLicenseStoreSizeRemaining

 }

STATUS current

DESCRIPTION

"A collection of objects that provide information about
license storages in the device."

::= { ciscoLicenseMgmtGroups 2 }

clmgtLicenseDeviceInformationGroup OBJECT-GROUP

OBJECTS { clmgtDefaultLicenseStore }

STATUS current

DESCRIPTION

"A collection of objects that provide information about
device level licensing support information in the device."

::= { ciscoLicenseMgmtGroups 3 }

clmgtLicenseInformationGroup OBJECT-GROUP

OBJECTS {
 clmgtLicenseFeatureName,
 clmgtLicenseFeatureVersion,
 clmgtLicenseType,
 clmgtLicenseCounted,
 clmgtLicenseValidityPeriod,
 clmgtLicenseValidityPeriodRemaining,
 clmgtLicenseExpiredPeriod,
 clmgtLicenseMaxUsageCount,
 clmgtLicenseUsageCountRemaining,
 clmgtLicenseEULAStatus,
 clmgtLicenseComments,
 clmgtLicenseStatus
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licenses and its state."

::= { ciscoLicenseMgmtGroups 4 }

clmgtLicensableFeatureInformationGroup OBJECT-GROUP

OBJECTS {
 clmgtFeatureName,
 clmgtFeatureVersion,

 clmgtFeatureValidityPeriodRemaining,
 clmgtFeatureWhatIsCounted
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licensable features in the software image."

::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP

```
OBJECTS    {
    clmgmtNextFreeDevCredExportActionIndex,
    clmgmtDevCredEntPhysicalIndex,
    clmgmtDevCredTransferProtocol,
    clmgmtDevCredServerAddressType,
    clmgmtDevCredServerAddress,
    clmgmtDevCredServerUsername,
    clmgmtDevCredServerPassword,
    clmgmtDevCredExportFile,
    clmgmtDevCredCommand,
    clmgmtDevCredCommandState,
    clmgmtDevCredCommandFailCause,

    clmgmtDevCredStorageType,
    clmgmtDevCredRowStatus
}
```

STATUS current

DESCRIPTION

"A collection of objects for exporting device credentials
from the device."

::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP

```
OBJECTS    {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
```

STATUS current

DESCRIPTION

"A collection of objects for controlling
(enabling/disabling) license notifications to a management
application."

::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP

```
NOTIFICATIONS {
    clmgmtLicenseExpired,
    clmgmtLicenseExpiryWarning,
    clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
}
```

STATUS current

DESCRIPTION

"A collection of notifications related to license usage."

::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {
 clmgmtLicenseInstalled,
 clmgmtLicenseCleared,
 clmgmtLicenseRevoked,
 clmgmtLicenseEULAAccepted
}

STATUS current

DESCRIPTION

"A collection of notifications related to license deployment."

::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS { clmgmtLicenseNotEnforced }

STATUS current

DESCRIPTION

"A collection of notifications related to license errors."

::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP

OBJECTS {
 clmgmtLicenseStartDate,
 clmgmtLicenseEndDate,
 clmgmtFeatureStartDate,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"A collection of objects that provide information specific to
subscription licenses."

::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {
 clmgmtLicenseSubscriptionExpiryWarning,
 clmgmtLicenseSubscriptionExtExpiryWarning,
 clmgmtLicenseSubscriptionExpired
}

STATUS current

DESCRIPTION

"A collection of notifications related to usage of subscription
licenses."

::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP

OBJECTS {


```

        clmgmtLicensePeriodUsed,
        clmgmtFeaturePeriodUsed
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information specific to
        Right to use (RTU) licenses."
    ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseEvalRTUTransitionWarning,
    clmgmtLicenseEvalRTUTransition
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
    ::= { ciscoLicenseMgmtGroups 14 }

END

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF

```

1.142 prometheus-procfs 0.7.3

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1.143 bytearraypool 1.0.0

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1.144 klauspost-compress 1.11.7

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1.145 cffi 1.15.0

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1.146 globalsign-mgo 0.0.0-20181015135952-eeefdec b41b8

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mgo - MongoDB driver for Go

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1.147 influxdb 1.9.4

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1.148 gosnmp 1.32.0

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1.149 go-storage 1.13.0

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package cloud

import (

"bytes"

"io/ioutil"

"os"

"path/filepath"

"strings"

"testing"

)

var sentinels = []string{

"Copyright",

"Google",

`Licensed under the Apache License, Version 2.0 (the "License");`,

}

func TestLicense(t *testing.T) {

t.Parallel()

skip := map[string]bool{

// Automatically generated.

```

"bigtable/cmd/cbt/cbtdoc.go": true,

// BSD license,
which is compatible, is embedded in the file.
"cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

// From https://github.com/golang/pkgsite.
"third_party/pkgsite/print_type.go": true,
"third_party/pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }

    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
        // .pb.go files are generated from the proto files.
        // .proto files must have license headers.
        return nil
    }
    if skip[path] {
        return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return
        }
    }

    return nil
})
if err != nil {
    t.Fatal(err)
}
}

```

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1.150 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.151 gomodule-redigo 2.0.0+incompatible

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1.153 fzambia-eagle 0.0.1

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1.154 mna-redisc 1.1.7

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1.155 mmap-go 1.0.0

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1.156 linkedin-goavro 2.10.0

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1.157 xorm.io-xorm 0.8.2

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1.158 sqlhooks 1.3.0

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1.159 getsentry-sentry-go 0.10.0

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1.160 prometheus-node-exporter 1.0.0-rc.0.0.20200428091818-01054558c289

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update-license

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Installation

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```
go get go.uber.org/tools/update-license
```

...

Usage

...

```
update-license go_files...
```

...

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* [golang.org/x/mod/module](https://github.com/golang/mod) - <https://github.com/golang/mod>

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* golang.org/x/tools/go/analysis - <https://github.com/golang/tools>

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

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```
var licenseTemplates = map[string]string{
    "Apache-2.0": `// Copyright {{.Year}} {{.Owner}}`
}
```

```
//
```

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// you may not use this file except in compliance with the License.
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```

```
//
```

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```
//
```

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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.`
```

```
"MIT": `// Copyright (c) {{.Year}} {{.Owner}}`
```

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// THE SOFTWARE.`
}
```

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Configurable modular Prometheus exporter for various node metrics.

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1.163 clockwork 0.2.2

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Clockwork - a clock process to replace cron

=====

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

[Delayed Job](<http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job>),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or

[Resque](<http://github.com/blog/542-introducing-resque>). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```


Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call `enqueue_your_job('thing.do')`.

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
every(1.day, 'check.leap.year') do
  Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

- * App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
- * App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](<http://rufus.rubyforge.org/rufus-scheduler/>) and [http://github.com/bvandenbos/resque-scheduler](<http://github.com/bvandenbos/resque-scheduler/>)(resque-scheduler)

Design

assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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<http://github.com/adamwiggins/clockwork>

Found in path(s):

- * /clockwork-0-2-2-2-gem/data-tar-gz/README.md

1.164 opentracing-go-stdlib 1.0.0

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

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1.168 sockjs 3.0.0

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1.169 mattetti-filebuffer 1.0.1

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1.170 sercand-kuberesolver

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1.171 fzambia-sentinel 1.1.0

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1.174 go-sourcemap-sourcemap

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1.175 grafana-grafana-plugin-sdk-go 0.88.0

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1.176 centrifugal-protocol 0.3.4

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tomb - support for clean goroutine termination in Go.

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

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

https://github.com/matttproud/golang_protobuf_extensions

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```
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```

```
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```

```
# Please keep the list sorted.
```

```
Damian Gryski <dgryski@gmail.com>
```

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```

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```

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package spec

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

```

```

func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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limitations under the License.

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

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#

Auto-generated with:

git log --oneline --pretty=format:'%an <%aE>' | sort -u

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

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DNS library in Go

<https://miekg.nl/2014/august/16/go-dns-package/>

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LevelDB key/value database in Go

<https://github.com/syndtr/goleveldb>

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gosnappy - a fork of code.google.com/p/snappy-go

<https://github.com/syndtr/gosnappy>

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go-zookeeper - Native ZooKeeper client for Go

<https://github.com/samuel/go-zookeeper>

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Time series compression algorithm from Facebook's Gorilla paper

<https://github.com/dgryski/go-tsz>

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package api

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)
```

```
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`
```

```
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.
```

```

InstallationID string `json:"installation_id"`

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"`

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"`

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"`

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{}
`json:"flags"`

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
}

```



```

_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return "", err
}
defer resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
    return "", err
}

return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it
// is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
}

```

```
return &reply, nil
}
```

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

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<https://github.com/golang/protobuf>

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*/

```

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS
    string      `xml:"xmlns,attr,omitempty"`
    XMLName xml.Name `xml:"LegalHold"`
    Status LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

```

```

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled ||
        r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
        urlValues.Set("versionId", opts.VersionID)
    }

    lh,
    err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)

```

```

if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:    bucketName,
    objectName:    objectName,
    queryValues:   urlValues,
    contentBody:   bytes.NewReader(lhData),
    contentLength: int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions)
(status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
        urlValues.Set("versionId", opts.VersionID)
    }

    // Execute GET on bucket to list objects.

```

```

resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:    bucketName,
    objectName:    objectName,
    queryValues:   urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil
}

```

1.179 cortexproject-cortex 1.4.1-0.20201022071705-85942c5703cf

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 */
```

package minio

```
import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
    XMLNS string `xml:"xmlns,attr,omitempty"`
    XMLName
    xml.Name `xml:"LegalHold"`
    Status LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status *LegalHoldStatus
}
```

```

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
(*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {

```

```

return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
    urlValues.Set("versionId", opts.VersionID)
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if
err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:    bucketName,
    objectName:    objectName,
    queryValues:   urlValues,
    contentBody:   bytes.NewReader(lhData),
    contentLength: int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
}

// GetObjectLegalHold gets legal-hold status of given object.

```

```

func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return
        nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
        urlValues.Set("versionId", opts.VersionID)
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:    bucketName,
        objectName:    objectName,
        queryValues:    urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
    lh := &objectLegalHold{}
    if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
        return nil, err
    }

    return &lh.Status, nil
}

```

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package spec

import (

"encoding/json"

"github.com/go-openapi/swag"

)

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

```

LicenseProps
VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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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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package api

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)
```

```
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  
  
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  
  
    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`  
  
    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`  
  
    // The time after which the license expires  
    ExpirationTime time.Time `json:"expiration_time"`  
  
    // The time at which the license ceases to function and can  
    // no longer be used in any capacity
```

```

TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// Modules is a list
// of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.NewRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

```

```

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license
// stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _,
    resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

```

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1.180 opencensus 0.22.6

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1.181 google-api-go-client 0.40.0

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1.182 apache-arrow-go-arrow 0.0.0-20200629181129-68b1273cbbf7

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r/R/dplyr-count-tally.R (some portions)

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1.183 cloud-google-com-go 0.75.0

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package cloud

import (

"bytes"

"io/ioutil"

"os"

"path/filepath"

"strings"

"testing"

)

var sentinels = []string{

"Copyright",

"Google",

`Licensed under the Apache License, Version 2.0 (the "License");`

}

func TestLicense(t *testing.T) {

t.Parallel()

skip := map[string]bool{

// Automatically generated.

"bigtable/cmd/cbt/cbt.doc.go": true,

// BSD license,

which is compatible, is embedded in the file.

"cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

// From <https://github.com/golang/pkgsite>.


```

"third_party/pkgsite/print_type.go": true,
"third_party/pkgsite/synopsis.go": true,
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }

    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
        // .pb.go files are generated from the proto files.
        // .proto files must have license headers.
        return nil
    }
    if skip[path] {
        return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return
        }
    }

    return nil
})
if err != nil {
    t.Fatal(err)
}
}

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```

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1.184 prometheus 1.8.2-0.20201105135750-00f16d1ac3a4

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

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

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DNS library in Go

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<https://github.com/samuel/go-zookeeper>

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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1.186 opentracing-contrib-go-grpc 0.0.0-20191001143057-db30781987df

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1.187 centrifugal-centrifuge 0.13.0

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1.188 logfmt 0.5.0

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1.189 influxdata-line-protocol 0.0.0-20200327222509-2487e7298839

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1.190 x-oauth2 0.0.0-20210113205817-d3ed898aa8a3

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1.191 common 0.0.0-20201119133501-0619918236ec

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

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

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A C-program for MT19937-64 (2004/9/29 version).

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using `init_genrand64(seed)` or `init_by_array64(init_key, key_length)`.

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M. Matsumoto

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:

- Speed: due to the simple formulas and the $O(1)$ complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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1.193 lumberjack 2.0.0

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1.194 nkeys 0.3.0

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1.205 coreos-semver 0.3.0

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1.207 jackc-pgproto 2.1.1

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1.209 gofpdf 1.16.2

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1.210 prometheus-common 0.32.1

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

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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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* Designed and built with all the love in the world @twitter by @mdo and @fat.
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```
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2fff3ca58910**

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1.220 russellhaering-goxmldsig 1.1.1

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1.221 mattermost-xml-roundtrip-validator

0.1.0

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1.222 antchfx-xpath 1.2.0

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1.223 jackc-pgtype 1.9.1

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1.224 pq 1.9.0

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```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler
```

```

}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

1.225 chardet 3.0.4

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Version 2.1, February 1999

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Any executables

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1.228 gorilla 1.8.0

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1.229 google-cloud-go 0.75.0

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```

```
package cloud
```

```
import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)
```

```
var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}
```

```
func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,

        // BSD license, which is compatible, is embedded in
        the file.
        "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

        // From https://github.com/golang/pkgsite.
        "third_party/pkgsite/print_type.go": true,
        "third_party/pkgsite/synopsis.go": true,
    }
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
}
```

```

}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if skip[path] {
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
})
if err != nil {
    t.Fatal(err)
}
}

```

1.230 go-engine-io 0.0.0-20200527182501-e01fec600c76

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1.233 antchfx-xmlquery 1.3.9

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1.234 prometheus-client 1.12.1

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1.235 etcd 3.5.2

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1.236 andybalholm-brotli 1.0.4

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1.237 python-setuptools 8.8.0

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A. HISTORY OF THE SOFTWARE

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 from	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
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1.240 jackc-pgtype 1.10.0

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1.242 jackc-pgconn 1.11.0

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1.245 ipaddr 2.2.0

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1.246 progress 1.5

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1.249 pycparser 2.20

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1.250 prometheus-client 0.2.0

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1.251 glob 0.2.3

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1.252 blang-semver 3.5.1+incompatible

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1.253 go-jose 2.5.1

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1.254 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.255 google-uuid 1.2.0

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bmatsuo

shawnps

theory

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cd1

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1.256 go-colorable 0.1.8

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1.257 color 1.10.0

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1.258 gokrb5 8.4.2

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1.262 libnsl 2.31

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1.263 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.264 google-go-cmp 0.5.8

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1.265 sqlx 1.3.4

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1.267 python-requests 2.28.1

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1.268 openssl 3.0.5

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```
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_preserve_unknown_enum.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arenastring.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_message_layout_helper.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_unittest.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_padding_optimizer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/struct.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/string_member_robber.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/tokenizer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/annotation_test_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_preserve_unknown_enum2.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectwriter.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_ops.cc

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/strtod.h
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_unittest.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/package_info.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3_lite.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_names.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_escaping.h
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 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/hash.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field_lite.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_test_util.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arenastring.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/util/internal/default_value_objectwriter_test.cc

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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/well_known_types_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_message.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/generated_message_util.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/timestamp_duration.proto

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_lite.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field_lite.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/empty.proto

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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_message_field.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wrappers.proto

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field_lite.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/timestamp.proto

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/proto3_arena_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/plugin.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/implicit_weak_message.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/zip_writer.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_impl.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_lite.proto

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_builder_lite.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/utility.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena.cc

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/once.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/importer.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_type_handler.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum_field.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_test.cc

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/php/php_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/tokenizer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/python/python_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/proto3_arena_lite_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_test.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/io_win32_unittest.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/field_mask_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_entry.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_empty.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_test_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/parser_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/mathutil.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_doc_comment.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/object_location_tracker.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/zip_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/repeated_field.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/test_messages_proto3.proto

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- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/package_info.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor_unittest.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_import_public_lite.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_optimize_for.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/field_mask.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/preserve_unknown_enum_test.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/gzip_stream.h
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/mock_code_generator.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_primitive_field.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/lite_unittest.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/port.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_internal.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/api.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_lite.cc
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/generated_message_tctable_lite.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_inl.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator_factory.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/port_undef.inc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/time_util_test.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/stringpiece.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/strutil.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/plugin.proto
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/delimited_message_util.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_shared_code_generator.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/coded_stream.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_mset.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven_lite.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor_database_unittest.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/repeated_field.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/testing/googletest.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_unittest.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/any.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_builder.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectsource.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_file.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_tctable_full.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field_lite.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/parser.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/stubs/structurally_valid.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_test_bad_identifiers.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_primitive_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/json_util_test.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_ops.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_stream_parser.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_enum.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_wrapper_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/proto_writer.cc
*

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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/json_format_proto3.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_lazy_dependencies_custom_option.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/package_info.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_enum_reflection.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_source_generator_base.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_doc_comment.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_doc_comment_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_names.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_primitive_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectsource_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/default_value.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_context.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_test_large_enum_value.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/message_differencer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/wrappers.proto
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_tester.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/json_format.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_field.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/constants.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/text_format.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_unittest.inc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set_inl.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/descriptor.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/dynamic_message.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/datapiece.cc
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_tester.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/time.h
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectwriter_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/type.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven_lite.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/empty.proto
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/parse_context.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/type_info_test_helper.h
 *

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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_padding_optimizer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3_arena.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unittest_embed_optimize_for.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_reflection_class.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_file.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/metadata_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/testing/file.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/source_context.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.inc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/io_win32.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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 *
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 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_stream_parser.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_lite.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_doc_comment.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_test_util.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_builder.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_field.h

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_unittest.proto

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_map_field.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/repeated_field_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field_lite.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/field_comparator.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/parser.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/service.cc

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_unittest.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/unittest_drop_unknown_fields.proto

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_test.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_enum_field.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_wrapper_field.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/json_util.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_generator.cc

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/util/internal/json_objectwriter_test.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_lite.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/subprocess.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/proto3_lite_unittest.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum.h

*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_primitive_field.cc

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_import_lite.proto

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third_party/protobuf/src/google/protobuf/util/delimited_message_util_test.cc

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_plugin_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_source_generator_base.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_bases.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_map_field.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/time_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unitest_import.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/unitest_lazy_dependencies.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_move_unittest.cc
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_bootstrap_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_name_resolver.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/printer.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/importer_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_test_util_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_extension_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/util/internal/object_writer.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/printer_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/coded_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/macros.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/port.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/bytestream.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/js/well_known_types_embed.h
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_field.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/util/internal/expecting_objectwriter.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/extension_set_heavy.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/importer.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_bootstrap_unittest.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util.h
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_helpers.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/substitute.cc
 *
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/drop_unknown_fields_test.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/js/js_generator.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
 1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_doc_comment.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common.cc
 * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_unittest.inc
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```

Found in path(s):

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/client_context_test_peer.h

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Found in path(s):

```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_stream.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
UNRECOGNIZED LICENSE; MD5 sum: d90fb2afe45a751786aafe0d8f7e3e9b
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```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
*
```

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice.h
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- *
- */

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- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/channel_test_peer.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_abseil.h

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```

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- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/internal/memory_allocator_impl.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.cc
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_credentials.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_security_policy.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/event_engine.h
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/complicated.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simpler.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/authorization_policy_provider.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/admin_services.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_verifier.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/orca_service.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/port.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/flawed.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel_binder.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice_buffer.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_allocator.h
- *
- /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simple.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_request.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/endpoint_config.h
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simplest.proto
- * /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/xds_server_builder.h

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```

Found in path(s):

```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/alloc.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_generic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/method_handler.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/async_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/metadata_map.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/channel_arguments.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/serialization_traits.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator.h
*
```



```

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_gcc_sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/port_platform.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/client_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator_string-inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/config.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/compression.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/node_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_gcc_atomic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/sync_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/port_platform.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/log.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/protobuf_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/rpc_method.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/schema_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/status_code_enum.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/auth_metadata_processor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_generic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator_helpers.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h

```

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/workaround_list.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/server_credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/interceptor.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/server_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_hook.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/slice_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/rpc_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/grpcpp.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/status.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/cpu.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/string_ref.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/method_handler.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/log_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_windows.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/alarm.h

```

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/byte_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/generator_helpers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/generic/generic_stub.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/objective_c_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/csharp_generator.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/byte_buffer.h
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```

```

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```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/mock_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
No license file was found, but licenses were detected in source scan.

```

```

/*

```

```

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*
*/

```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server_builder.h
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```

```

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* limitations under the License.
*
*/

```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_op_set.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/proto_utils.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/interceptor_common.h
*

```

```

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/generic/async_generic_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_op_set_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/proto_buffer_reader.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/server_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/rpc_service_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/status.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/callback_common.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/create_channel_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/async_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/create_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/core_codegen.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/health_check_service_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_initializer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/thd_id.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/rpc_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/grpc++.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/rpc_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/sync_stream.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_builder_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/async_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/generic/generic_stub.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/test/mock_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/server_callback.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/status_code_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/serialization_traits.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/create_auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/service_type.h

```

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_builder_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/server_interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/channel_argument_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/error_details.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpc++/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/rpc_service_method.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/grpc_library.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/sync_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/ext/server_load_reporting.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/serialization_traits.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/client_callback.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/proto_buffer_writer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/generic/async_generic_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/ext/channelz_service_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/status_code_enum.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/client_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/call.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/string_ref.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/channel_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/intercepted_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/grpc_library.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/channel_arguments.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/slice.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/string_ref.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/auth_metadata_processor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/test/server_context_test_spouse.h

```

```
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/server_credentials.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/byte_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/resource_quota.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/security/auth_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_builder.h
```

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

Metadata-Version: 1.2

Name: grpcio-tools

Version: 1.47.0

Summary: Protobuf code generator for gRPC

Home-page: <https://grpc.io>

Author: The gRPC Authors

Author-email: grpc-io@googlegroups.com

License: Apache License 2.0

Description: gRPC Python Tools

=====

Package for gRPC Python tools.

Supported Python Versions

Python >= 3.6

Installation

The gRPC Python tools package is available for Linux, Mac OS X, and Windows.

Installing From PyPI

~~~~~

If you are installing locally...

::

\$ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

```
$ sudo pip install grpcio-tools
```

If you're on Windows make sure that you installed the `:code:`pip.exe`` component when you installed Python (if not go back and install it!) then invoke:

```
::
```

```
$ pip.exe install grpcio-tools
```

Windows users may need to invoke `:code:`pip.exe`` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *\*must\** have a recent release of `:code:`pip`` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

#### Installing From Source

~~~~~

Building from source requires that you have the Python headers (usually a package named `:code:`python-dev``) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

```
::
```

```
$ export REPO_ROOT=grpc # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init
```

```
$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py
```

```
# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting


~~~~~

Help, I ...

`* **... see a** :code:`pkg_resources.VersionConflict` **when I try  
to install  
grpc**`

This is likely because `:code:`pip`` doesn't own the offending dependency,  
which in turn is likely because your operating system's package manager owns  
it. You'll need to force the installation of the dependency:

`:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY``

For example, if you get an error like the following:

::

Traceback (most recent call last):

File "<string>", line 17, in <module>

...

File "/usr/lib/python2.7/dist-packages/pkg\_resources.py", line 509, in find

raise VersionConflict(dist, req)

`pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))`

You can fix it by doing:

::

`sudo pip install --ignore-installed six`

`* **... see compiler errors  
on some platforms when either installing from source or from the source distribution**`

If you see

::

`/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory  
#include "Python.h"`

^

`compilation terminated.`

You can fix it by installing ``python-dev`` package. i.e

::

`sudo apt-get install python-dev`

If you see something similar to:

::

```
third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro
'SIGNED_INT_MAX'
    static const Type kPosMax = SIGNED_INT_MAX(Type); \
                                ^
```

And your toolchain is GCC (at the time of this writing, up through at least GCC 6.0), this is probably a bug where GCC chokes on constant expressions when the `-fwrapv` flag is specified. You should consider setting your environment with `CFLAGS=-fno-wrapv` or using clang (`CC=clang`).

## Usage

-----

Given protobuf include directories `$INCLUDE`, an output directory `$OUTPUT`, and proto files `$PROTO_FILES`, invoke as:

::

```
$ python -m grpc_tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT
$PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided command class in your `setup.py`:

::

```
setuptools.setup(
    # ...
    cmdclass={
        'build_proto_modules': grpc_tools.command.BuildPackageProtos,
    }
    # ...
)
```

Invocation of the command will walk the project tree and transpile every `.proto` file into a `_pb2.py` file in the same directory.

Note that this particular approach requires `grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of `setup_requires` or `install_requires` will provide access to `grpc_tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our

```
:code:`grpcio-health-checking`  
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:
```

```
::
```

```
class BuildPackageProtos(setuptools.Command):  
    """Command to generate project *_pb2.py modules from proto files."""  
    # ...  
    def run(self):  
        from grpc_tools import command  
        command.build_package_protos(self.distribution.package_dir[""])
```

Now including :code:`grpcio-tools` in :code:`setup\_requires` will provide the command on-setup as desired.

For more information on command classes, consult :code:`distutils` and :code:`setuptools` documentation.

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 3

Classifier: License :: OSI Approved :: Apache Software License

Requires-Python: >=3.6

Found in path(s):

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/PKG-INFO

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpcio\_tools.egg-info/PKG-INFO

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# in the documentation and/or other materials provided with the  
# * Neither the name of Google Inc. nor the names of its  
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```

Found in path(s):

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/io/gzip\_stream\_unittest.sh

\* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/compiler/zip\_output\_unittest.sh

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```

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 *
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 *
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 *
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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.
 */

```

Found in path(s):

```

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_plugin.h
*
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/cronet_credentials.h

```

# 1.272 grpcio 1.47.0

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```
MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,  
NOTIFICATION-TYPE  
    FROM SNMPv2-SMI  
jnxLicenseMibRoot  
    FROM JUNIPER-SMI  
DisplayString  
    FROM SNMPv2-TC;
```

```
jnxLicenseMIB    MODULE-IDENTITY  
    LAST-UPDATED   "201906170000Z"  
    ORGANIZATION   "Juniper Networks, Inc."  
    CONTACT-INFO  
        "Juniper Technical Assistance Center  
        Juniper Networks, Inc."
```

1133 Innovation Way  
Sunnyvale, CA 94089  
E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB  
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

REVISION "201612150000Z" -- Dec 15, 2016

DESCRIPTION

"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"

REVISION "201906170000Z" -- Jun 17, 2019

DESCRIPTION

"Deprecated jnxLicenseKeys."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- \*\*\*\*\*

-- License table for installed licenses

-- \*\*\*\*\*

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE

SYNTAX JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "A row of giving installed feature license information."

INDEX { IMPLIED jnxLicenseId }

::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {

jnxLicenseId DisplayString,



```

jnxLicenseVersion    INTEGER,
jnxLicenseDeviceId   DisplayString,
jnxLicenseType       INTEGER,
jnxLicenseKeys       OCTET STRING,
jnxLicenseKeyType    INTEGER
}

```

#### jnxLicenseId OBJECT-TYPE

```

SYNTAX      DisplayString
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION "Installed feature licenses Id."
 ::= { jnxLicenseInstallEntry 1 }

```

#### jnxLicenseVersion OBJECT-TYPE

```

SYNTAX      INTEGER
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "License Version information"
 ::= { jnxLicenseInstallEntry 2 }

```

#### jnxLicenseDeviceId OBJECT-TYPE

```

SYNTAX      DisplayString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "License Device Id "
 ::= { jnxLicenseInstallEntry 3 }

```

#### jnxLicenseType OBJECT-TYPE

```

SYNTAX      INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "License type information"
 ::= { jnxLicenseInstallEntry 4 }

```

#### jnxLicenseKeys OBJECT-TYPE

```

SYNTAX      OCTET STRING
MAX-ACCESS  read-only
STATUS      deprecated
DESCRIPTION "***** THIS OBJECT IS DEPRECATED *****
    This object is deprecated,
    it displays all the license keys
    in the system."

```

```

 ::= { jnxLicenseInstallEntry 5 }

```

#### jnxLicenseKeyType OBJECT-TYPE

```

SYNTAX      INTEGER {commercial(1),
trial(2), demo(3), emergency(4), lab(5), education(6)}
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION   "License key type"
::= { jnxLicenseInstallEntry 6 }

```

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE

```

SYNTAX      SEQUENCE OF JnxLicenseFeatureListEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION   "list of features supporting Licensing."
::= { jnxLicenseInstallObjects 2 }

```

jnxLicenseFeatureListEntry OBJECT-TYPE

```

SYNTAX      JnxLicenseFeatureListEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION   "A row of licensed features."
INDEX       { jnxLicenseFeatureId }
::= { jnxLicenseFeatureListTable 1 }

```

JnxLicenseFeatureListEntry ::= SEQUENCE {

```

    jnxLicenseFeatureId      INTEGER,
    jnxLicenseFeatureName     DisplayString,
    jnxLicenseFeatureDescr    DisplayString,
    jnxLicenseFeatureLicenseId
        DisplayString,
    jnxLicenseFeatureLicenseUsed    INTEGER,
    jnxLicenseFeatureLicenseInstalled    INTEGER,
    jnxLicenseFeatureLicenseNeeded    INTEGER
}

```

jnxLicenseFeatureId OBJECT-TYPE

```

SYNTAX      INTEGER
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION   "Feature Id to point an entry in this table"
::= { jnxLicenseFeatureListEntry 1 }

```

jnxLicenseFeatureName OBJECT-TYPE

```

SYNTAX      DisplayString
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION   "Feature Name"
::= { jnxLicenseFeatureListEntry 2 }

```

```
jnxLicenseFeatureDescr OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION      "Feature Name"
    ::= { jnxLicenseFeatureListEntry 3 }
```

```
jnxLicenseFeatureLicenseId OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION      "Feature License Id"
    ::= { jnxLicenseFeatureListEntry 4 }
```

```
jnxLicenseFeatureLicenseUsed  OBJECT-TYPE
    SYNTAX          INTEGER
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION      "Licenses Used"
    ::= { jnxLicenseFeatureListEntry 5 }
```

```
jnxLicenseFeatureLicenseInstalled OBJECT-TYPE
    SYNTAX          INTEGER
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION      "Licenses Installed"
    ::= { jnxLicenseFeatureListEntry 6 }
```

```
jnxLicenseFeatureLicenseNeeded  OBJECT-TYPE
    SYNTAX          INTEGER
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION      "Licenses Needed"
    ::= { jnxLicenseFeatureListEntry 7 }
```

```
-- *****
-- License configuration parameters
-- *****
```

```
jnxLicenseRenewBeforExpiration
OBJECT-TYPE
    SYNTAX          INTEGER
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
```

```

        "License renew lead time before expiration in days."
 ::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "License checking interval in hours."
 ::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "License auto update URL of a license server."
 ::= { jnxLicenseSettings 3 }

-- *****
-- define branches for jnx license traps
-- *****

jnxLicenseGraceExpired NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName
    }
    STATUS   current
    DESCRIPTION
        "The SNMP trap that is generated when the license grace period for
         feature identified by jnxLicenseFeatureName is expired"
 ::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName }
    STATUS   current
    DESCRIPTION
        "The SNMP trap that is generated when the license grace period for
         feature identified by jnxLicenseFeatureName is about to expire"
 ::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE
    OBJECTS { jnxLicenseFeatureName }
    STATUS   current
    DESCRIPTION
        "The SNMP trap that is generated when the license period for
         feature identified by jnxLicenseFeatureName is about to expire"

```

```

::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
  OBJECTS { jnxLicenseFeatureName }
  STATUS current
  DESCRIPTION
    "The SNMP trap that is generated when the
feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName"
  ::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE
  OBJECTS { jnxLicenseFeatureName }
  STATUS current
  DESCRIPTION
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available."
  ::= { jnxLicenseNotifications 5 }

jnxLicenseKeyExpired NOTIFICATION-TYPE
  OBJECTS { jnxLicenseFeatureName, jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
  STATUS current
  DESCRIPTION
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available."
  ::= { jnxLicenseNotifications 6 }

END
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-LICENSE-MGMT-MIB {

  namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-LICENSE-MGMT-MIB";
  prefix "cisco-license-mgmt-mib";

```

```
import ENTITY-MIB {  
    prefix "entity-mib";  
}
```

```
import INET-ADDRESS-MIB {  
    prefix "inet-address";  
}
```

```
import SNMP-FRAMEWORK-MIB {  
    prefix "snmp-framework";  
}
```

```
import SNMPv2-TC {  
    prefix "snmpv2-tc";  
}
```

```
import ietf-yang-smiv2 {  
    prefix "smiv2";  
}
```

```
organization  
"Cisco Systems Inc.";
```

```
contact  
"Cisco Systems  
Customer Service
```

```
Postal: 170 W Tasman Drive
```

```
San Jose, CA 95134
```

```
USA
```

```
Tel: +1 800 553 -NETS
```

```
E-mail: cs-snmp@cisco.com";
```

```
description  
"The MIB module for managing licenses on the system.
```

The licensing mechanism provides flexibility to  
enforce licensing for various features in the system.

The following text introduces different concepts and  
terms those are necessary to understand the MIB definition  
and to perform license management.

```
UDI
```

Universal Device Identifier that uniquely identifies a device. It comprises of product ID, version ID and serial number of the device.

#### NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

#### NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

#### METERED LICENSE:

Metered

licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

#### EULA:

End User License Agreement.

#### EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

#### RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

#### EXTENSION LICENSE:

Extension licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an EULA as part of installation of extension license.

#### GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided

further down in this description clause.

#### PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

#### COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

#### UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

#### IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.



#### FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

#### LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

#### LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

#### DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

#### REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be

presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

#### PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

#### REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

#### LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

#### STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

#### STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

#### STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost

ticket as proof of revocation to

Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

#### STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action.  
Device generates rehost ticket to be submitted as proof of revocation.

#### STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

#### STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests

on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index or one of the index for tables in this MIB as needed.";

```
revision 2012-04-19 {
description
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2011-04-19 {
description
"This version of the MIB adds support for Right to use (RTU)
licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new
types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}
```

```
revision 2008-11-21 {
description
```

```

    "This version of the MIB adds support for subscription
    licensing. Subscription licenses provide software
    enforcement for a licensed feature for a fixed calendar
    period. The revisions are:
    o Updated clmgmtLicenseType object to support the following three
      new types of licenses:
        paidSubscription
        evaluationSubscription
        extensionSubscription
    o Added following objects to clmgmtLicenseInfoTable
        clmgmtLicenseStartDate
        clmgmtLicenseEndDate
    o Added following objects to clmgmtLicensableFeatureTable
        clmgmtFeatureStartDate
        clmgmtFeatureEndDate
    o Added the following notifications
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
    o Added the following conformance groups
        clmgmtLicenseSubscriptionGroup
        clmgmtLicenseSubscriptionUsageNotifGroup
    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

revision 2006-10-03 {
    description
        "Initial version of this MIB module.";
}

```

```

typedef ClmgmtLicenseIndex {
    type uint32 {
        range "1..4294967295";
    }
    description
        "A unique value, for each license in the managed system.
        It is not necessary to have values assigned contiguously.
        The value for each license must remain constant
        at least from one re-initialization of the entity's
        network management system to the next re-initialization";
}

```

```

typedef ClmgmtLicenseIndexOrZero {
    type uint32;
    description
        "This textual convention is an extension of the ClmgmtLicenseIndex
        convention.

```

The latter defines a greater than zero value used to identify a license in the managed system. This extension permits the additional value of zero. The value zero is object-specific and must therefore be defined as part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown.";

```
}
```

```
typedef ClmgmtLicenseTransferProtocol {  
  type enumeration {  
    enum "none" {  
      value "1";  
    }  
    enum "local" {  
      value "2";  
    }  
    enum "tftp" {  
      value "3";  
    }  
    enum "ftp" {  
      value "4";  
    }  
    enum "rcp" {  
      value "5";  
    }  
    enum "http" {  
      value "6";  
    }  
    enum "scp" {  
      value "7";  
    }  
    enum "sftp" {  
      value "8";  
    }  
  }  
  description  
  "The transfer protocol that should be used for copying files  
  when performing license management. When  
the protocol is  
  set to local(2), local file system (flash or disk) is used.  
  Different agents may support different transfer protocols  
  and the management application is expected to some how determine  
  which protocol is supported and use.";  
}
```

```
typedef ClmgmtLicenseActionState {  
  type enumeration {
```

```

enum "none" {
    value "1";
}
enum "pending" {
    value "2";
}
enum "inProgress" {
    value "3";
}
enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
description
"The state of license action execution.

none(1)          - action is not yet scheduled to be
                  executed.

pending(2)        - All the required parameters for the
                  action are set and the action is
                  scheduled
to be executed.

inProgress(3)     - action execution has started and is
                  in progress.

successful(4)     - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
                  partially successful. Management
                  application can query additional MIB
                  objects to know what is successful
                  and what has failed. These additional
                  objects are listed in the
                  description of the corresponding
                  action tables.

failed(6)         - action has failed.";
}
typedef ClmgmtLicenseActionFailCause {

```

```

type enumeration {
  enum "none" {
    value "1";
  }
  enum "generalFailure" {
    value "2";
  }
  enum "transferProtocolNotSupported" {
    value
"3";
  }
  enum "fileServerNotReachable" {
    value "4";
  }
  enum "unrecognizedEntPhysicalIndex" {
    value "5";
  }
  enum "invalidLicenseFilePath" {
    value "6";
  }
  enum "invalidLicenseFile" {
    value "7";
  }
  enum "invalidLicenseLine" {
    value "8";
  }
  enum "licenseAlreadyExists" {
    value "9";
  }
  enum "licenseNotValidForDevice" {
    value "10";
  }
  enum "invalidLicenseCount" {
    value "11";
  }
  enum "invalidLicensePeriod" {
    value "12";
  }
  enum "licenseInUse" {
    value "13";
  }
  enum "invalidLicenseStore" {
    value "14";
  }
  enum "licenseStorageFull" {
    value "15";
  }
  enum "invalidPermissionTicketFile" {

```



```

        value "16";
    }
    enum "invalidPermissionTicket" {
        value "17";
    }
    enum "invalidRehostTicketFile" {
        value "18";
    }
    enum "invalidRehostTicket"
{
    value "19";
}
    enum "invalidLicenseBackupFile" {
        value "20";
    }
    enum "licenseClearInProgress" {
        value "21";
    }
    enum "invalidLicenseEULAFile" {
        value "22";
    }
}
description
"Reason for license action failure. Defines error codes for
all the license actions.

```

none(1)                - action execution has not  
                          started yet. If the action  
                          is completed and the action  
                          is successful, then also  
                          none(1) is returned to  
                          indicate that there are no  
                          errors.

generalFailure(2)       - General licensing failure.  
                          This will be used for resource  
                          unavailability failures.

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not  
                          supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not  
                          valid

invalidLicenseFilePath(6) - The license file path is not  
                          accessible.

invalidLicenseFile(7)    - Contents of license file are  
                          not valid.

invalidLicenseLine(8)    - License string in the license

file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible.";

}

container CISCO-LICENSE-MGMT-MIB {  
 config false;

container clmgmtLicenseConfiguration {  
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

```
leaf clmgmtNextFreeLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object contains appropriate value for
    clmgmtLicenseActionIndex that can be used to create
    an entry in clmgmtLicenseActionTable. The management application
    should read this object first and then use this as the
    value for clmgmtLicenseActionIndex to avoid collisions
    when creating entries in clmgmtLicenseActionTable.
    Following this approach does not guarantee collision free
    row creation, but will reduce the probability. The
    collision will happen if two management applications read this
    object at the same time and attempt to create an entry
    with this value at the same time. In this case, the
    management application whose request is processed after the first
    request will get an error and the process of reading this object
    and
    entry creation needs to be repeated.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
}
```

```
container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
```

```
leaf clmgmtNextFreeDevCredExportActionIndex {
  type uint32;
  description
    "This object contains appropriate value for
    clmgmtDevCredExportActionIndex that can be used to create
    an entry in clmgmtDevCredExportActionTable. The management
    application should read this object first and then use this
    as the value for clmgmtDevCredExportActionIndex to avoid
    collisions when creating entries in
    clmgmtDevCredExportActionTable. Following this approach does
    not guarantee collision free row creation, but will reduce
    the probability. The collision will happen if two
    management applications read this object at the same time and
    attempt to create an entry
    with this value at the same time.
    In this case, the management application whose request is
    processed after the first request will get an error and the
    process of reading this object and entry creation needs to be
    repeated.";
  smiv2:max-access "read-only";
```

```

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      the notifications related to usage of licenses. This object
      enables/disables sending following notifications:
        clmgmtLicenseExpired
        clmgmtLicenseExpiryWarning
        clmgmtLicenseUsageCountExceeded
        clmgmtLicenseUsageCountAboutToExceed
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
        clmgmtLicenseEvalRTUTransitionWarning
        clmgmtLicenseEvalRTUTransition";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
  }

  leaf clmgmtLicenseDeploymentNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      notifications related to license deployment. This object
      enables/disables sending following notifications:
        clmgmtLicenseInstalled
        clmgmtLicenseCleared
        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
  }

  leaf clmgmtLicenseErrorNotifEnable {
    type boolean;
    description
      "This object indicates whether the device should generate
      notifications related to error conditions in enforcing
      licensing. This object enables/disables sending following

```

```

    notifications:
        clmgmtLicenseNotEnforced";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}

```

container clmgmtLicenseActionTable {  
description  
"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.

Once the request completes, the management application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";
```

```
list clmgmtLicenseActionEntry {
key "clmgmtLicenseActionIndex";
description
"An entry for each action that is being executed or was
executed recently. The management application executes an
action
by creating this entry. This can be done in the following
2 methods
```

#### 1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

#### 2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgmtLicenseActionRowStatus` to `destroy(6)` when `clmgmtLicenseActionState` is `pending(2)`.

The status of action execution can be known by querying `clmgmtLicenseActionState`. If the action is still in `pending(2)` or in `InProgress(3)` state, the management application need to check back again after few seconds. Once the action completes and status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

#### 1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
  - c. `clmgmtLicenseServerAddress`
  - d. `clmgmtLicenseServerUsername`
  - e. `clmgmtLicenseServerPassword`
  - f. `clmgmtLicenseFile`
  - g. `clmgmtLicenseStore`
  - h. `clmgmtLicenseStopOnFailure`
  - i. `clmgmtLicenseAcceptEULA`
  - j. `clmgmtLicenseAction`

clmgtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members within a stack), then value of clmgtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

## 2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgtLicenseActionEntPhysicalIndex
- b. clmgtLicenseActionLicenseIndex
- c. clmgtLicenseStore
- d. clmgtLicenseAction

## 3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicensePermissionTicketFile
- g. clmgtLicenseRehostTicketFile
- h. clmgtLicenseStopOnFailure
- i. clmgtLicenseAction

## 4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicensePermissionTicketFile
- g. clmgtLicenseRehostTicketFile
- h. clmgtLicenseStopOnFailure
- i. clmgtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted

except when clmgmtLicenseAction is set

to pending(2). All entries are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

leaf clmgmtLicenseActionIndex {

type uint32 {

range "1..4294967295";

}

description

"This object uniquely identifies a row in

clmgmtLicenseActionTable. The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex

while creating an entry in this table. If an entry already



exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeLicenseActionIndex again and retry with the new value for this object.";

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}
```

```
leaf clmgmtLicenseActionEntPhysicalIndex
{
    type entity-mib:PhysicalIndexOrZero;
    description
        "This object represents the entPhysicalIndex of the device
        where the action is being executed. This object is mainly
        used in devices where one device is acting as a master and
        rest of the devices as slaves. The master device is
        responsible for SNMP communication with the management
        application. Examples include stackable switches, devices
        with route processor and line card configuration. If this
        object is not set, the license action will be executed on
        the master device. Note: This object need not be set if
        there is a stand alone device";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}
```

```
leaf clmgmtLicenseActionTransferProtocol {
    type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
    description
        "This object represents the transfer protocol to be used
        when copying files as specified in the following objects.
        1. clmgmtLicenseFile
        2. clmgmtLicensePermissionTicketFile
        3. clmgmtLicenseRehostTicketFile
        4. clmgmtLicenseBackupFile

        Note: This object need not be set if the all the files
        required for the action are in device's local file system.";
    smiv2:defval "none";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}
```

```
leaf clmgmtLicenseServerAddressType {
    type inet-address:InetAddressType;
    description
        "This object indicates the transport type of the
```

address contained in clmgmtLicenseServerAddress object.  
 This must be set when clmgmtLicenseActionTransferProtocol  
 is not none(1) or local(2).";  
 smiv2:defval  
 "unknown";  
 smiv2:max-access "read-write";  
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";  
 }

leaf clmgmtLicenseServerAddress {  
 type inet-address:InetAddress;  
 description  
 "This object indicates the ip address of the server from  
 which the files must be read or written to if  
 clmgmtLicenseActionTransferProtocol is not none(1) or  
 local(2)."

All bits as 0s or 1s for clmgmtLicenseServerAddress are not  
 allowed.

The format of this address depends on the value of the  
 clmgmtLicenseServerAddressType object";  
 smiv2:defval "";  
 smiv2:max-access "read-write";  
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";  
 }

leaf clmgmtLicenseServerUsername {  
 type snmp-framework:SnmpAdminString {  
 length "0..96";  
 }  
 description  
 "This object indicates the  
 remote user name for accessing  
 files via ftp, rcp, sftp or scp protocols. This object must  
 be set when the clmgmtLicenseActionTransferProtocol is  
 ftp(4), rcp(5), scp(7) or sftp(8). If  
 clmgmtLicenseActionTransferProtocol is rcp(5), the remote  
 username is sent as the server username in an rcp command  
 request sent by the system to a remote rcp server.";  
 smiv2:defval "";  
 smiv2:max-access "read-write";  
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";  
 }

leaf clmgmtLicenseServerPassword {  
 type snmp-framework:SnmpAdminString {  
 length "0..96";

```

    }
    description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
    or sftp(8). Reading it returns
    a zero-length string for
    security reasons.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

leaf clmgmtLicenseFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
    "This object represents the location of the license file
    on the server identified by clmgmtLicenseServerAddress. This
    object MUST be set to a valid value before or concurrently
    with setting the value of the clmgmtLicenseAction object to
    install(2). For other operations, the value of this
    object is not considered, it is irrelevant.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

leaf clmgmtLicenseStore {
    type uint32;
    description
    "This object represents the clmgmtLicenseStoreIndex
of the
    license store to use within the device. The license store
    can be a local disk or flash. A device can have more than
    one license stores. If this object is not set, the license
    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

leaf clmgmtLicenseActionLicenseIndex {
    type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
    description

```

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex object in

```

    clmgmtLicenseInfoEntry for license that is subject of this
    action.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

```

```

leaf clmgmtLicensePermissionTicketFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
    "This object indicates the file name of the permission
    ticket. This object need to be set only if
    clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions. The permission
    ticket is obtained from Cisco licensing portal to revoke
    a license. The management application must set this object
    to valid value before invoking the action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

```

```

leaf clmgmtLicenseRehostTicketFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

```

```

}

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates
the file where all the licenses in
    the device need to be backed up. This object need to be set
    only if clmgmtLicenseAction is set to backup(6) and the
    management application must set the value of this object
    to valid value before invoking action.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
stop if the action on a license fails. This object is
applicable only if there are more than one licenses
involved in an action.";
  smiv2:defval "false";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

leaf clmgmtLicenseAction {
  type enumeration {
    enum "noOp" {
value "1";
    }
    enum "install" {
      value "2";
    }
    enum "clear" {
      value "3";
    }
    enum "processPermissionTicket" {
      value "4";
    }
    enum "regenerateLastRehostTicket" {
      value "5";
    }
  }
}

```

```

enum "backup" {
    value "6";
}
enum "generateEULA" {
    value "7";
}
}
description
"This object indicates the the command/action to be executed.

```

| Command    | Remarks                         |
|------------|---------------------------------|
| -----      | -----                           |
| noOp(1)    | No operation will be performed. |
| install(2) | Installs the license.           |
| clear(3)   | Clears the license.             |

```

    processPermissionTicket(4)
Processes thee permission
                                ticket and generates and
                                exports rehost ticket.

    regenerateLastRehostTicket(5) Generates and exports the
                                last generated rehost
                                ticket.

```

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| backup(6) | Backs up all the licenses installed currently onto a backup store. |
|-----------|--------------------------------------------------------------------|

|                 |                                                                                                                        |
|-----------------|------------------------------------------------------------------------------------------------------------------------|
| generateEULA(7) | Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file."; |
|-----------------|------------------------------------------------------------------------------------------------------------------------|

```

smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}

```

```

leaf clmgmtLicenseActionState {
type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
description
"This object indicates the state of this license action.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

```

```

leaf clmgmtLicenseJobQPosition {
  type uint32;
  description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
    reading this object, the management application can make
    intelligent decision on whether to execute another
    action that it is planning on. For example, if there
    is already a license clear action in the queue in
    pending(2) state, management application can choose to

defer its license back up action to a later time. This
  object will return a value of 0 if the action is not in
  pending(2) state.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

leaf clmgmtLicenseActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for this license action
    failure. The value of this object is valid only when
    clmgmtLicenseActionState is failed(6).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}

leaf clmgmtLicenseActionStorageType {
  type snmpv2-tc:StorageType;
  description
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";
  smiv2:defval "volatile";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

leaf clmgmtLicenseActionRowStatus {
  type snmpv2-tc:RowStatus;
  description
    "This object indicates the the status of this table entry.
    Once the entry status is set to active(1), the associated
    entry cannot be modified until the action completes

```

(clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion";

```
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}
```

```
leaf clmgmtLicenseAcceptEULA {
  type boolean;
  description
    "This object indicates whether the End User License Agreement
    needed for installing the licenses is accepted.

    true(1) - EULA is read and accepted
    false(2) - EULA is not accepted
```

```
    Management application should set this object to true(1) when
    installing licenses that need EULA acceptance.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}
```

```
leaf clmgmtLicenseEULAFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to
    be set only if clmgmtLicenseAction is set to generateEULA(7) and
    the management application must set the value of this object to
    valid value before invoking action.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}
}
```

```
container clmgmtLicenseActionResultTable {
```



description

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

list clmgmtLicenseActionResultEntry {

key "clmgmtLicenseActionIndex clmgmtLicenseNumber";

description

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license.

These entries are created immediately after action execution when the action involves multiple licenses.

These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

leaf clmgmtLicenseActionIndex {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-mib:clmgmtLicenseActionIndex";

}

}

leaf clmgmtLicenseNumber {

type uint32 {

range "1..4294967295";

}

description

"This object indicates the sequence number of this license in the list of licenses on which the action is executed.

For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";

}

leaf clmgmtLicenseIndivActionState {

type cisco-license-mgmt-mib:ClmgmtLicenseActionState;

```

    description
    "This object indicates the state of action on this
    individual license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}

leaf clmgmtLicenseIndivActionFailCause {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
    description
    "This object indicates the reason for action failure on this
    individual license";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}

container clmgmtLicenseStoreInfoTable {
    description
    "This table contains information about all the license
    stores allocated on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

    list clmgmtLicenseStoreInfoEntry {
        key "entPhysicalIndex clmgmtLicenseStoreIndex";
        description
        "An entry in clmgmtLicenseStoreInfoTable. Each entry
        contains information about a license store allocated
        on the device";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtLicenseStoreIndex {
            type uint32 {
                range "1..4294967295";
            }
            description
            "This object uniquely identifies a license store within
            the device.";
            smiv2:max-access "not-accessible";
            smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
        }
    }
}

```

```

    }

    leaf clmgmtLicenseStoreName {
      type snmp-framework:SnmpAdminString {
        length "0..255";
      }
      description
        "This object indicates the name of the license store
        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt';
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
    }

    leaf clmgmtLicenseStoreTotalSize {
      type uint32;
      units "bytes";
      description
        "This object indicates the total number of bytes that are
        allocated to the license store.";
      smiv2:max-access "read-only";
      smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
    }

    leaf clmgmtLicenseStoreSizeRemaining {
      type uint32;
      units "bytes";
      description
        "This object indicates the number of bytes still remaining
        to be used for new license installations in the license
        store.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
    }
  }
}

container clmgmtLicenseDeviceInfoTable {
  description
    "This table contains objects that provide licensing related
    information at the device level. Entries will exist
    only for entities that support licensing. For example,
    if it is a stand alone device and supports licensing,
    then there will be only one entry in this table. If

```

it is stackable switch then there will be multiple entries with one entry for each device in the stack.";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

list

clmgtLicenseDeviceInfoEntry {

key "entPhysicalIndex";

description

"An entry in clmgtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

mib:entPhysicalIndex";

}

}

leaf clmgtDefaultLicenseStore {

type uint32 {

range "1..4294967295";

}

description

"This object indicates the clmgtLicenseStoreIndex of default store in the device. There will be only one default license store per device. If no license store is specified during license install, this default license store will be used.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";

}

}

}

container clmgtLicenseInfoTable {

description

"This table contains information about all the licenses installed on the device.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

list clmgtLicenseInfoEntry {

key "entPhysicalIndex clmgtLicenseStoreUsed clmgtLicenseIndex";

description

"An entry in clmgtLicenseInfoTable. Each entry contains information about a license installed on the device. This entry gets created when a license is installed successfully. Management application can not create these entries directly, but

will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```
leaf clmgmtLicenseStoreUsed {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}
```

```
leaf clmgmtLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
  description
    "This object uniquely identifies a license within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}
```

```
leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString
{
  length "0..128";
}
  description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}
```

```

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version
    are: '1.0', '2.0'";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

```

```

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension"
  {
    value "2";
  }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
    enum "evalRightToUse" {
      value "8";
    }
    enum "rightToUse" {
      value "9";
    }
    enum "permanentRightToUse" {
      value "10";
    }
  }
  description

```

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.  
 extension(2) - Extension(expiring) license.  
 gracePeriod(3) - Grace period license.  
 permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of

the product.

This is a Right To Use license which is not in evaluation mode for a limited time.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
}
```

```
leaf clmgmtLicenseCounted {
```

```
  type boolean;
```

```
  description
```

```
    "This object indicates whether the license is counted
```

```

    license.
    true(1) - counted license
    false(2) - uncounted license";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}

leaf clmgmtLicenseValidityPeriod {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period the license is valid for.
        This object is applicable only if clmgmtLicenseType is demo(1),
        or extension(2) or gracePeriod(3) or evalRightToUse(8). The
        object will return
0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}

leaf clmgmtLicenseValidityPeriodRemaining {
    type uint32;
    units "seconds";
    description
        "This object indicates the time period remaining before the
        license expires or transitions to rightToUse(9) license. This
        object is applicable only if clmgmtLicenseType is demo(1), or
        extension(2) or gracePeriod(3) or evalRightToUse(8). The object
        will contain 0 for other license types.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}

leaf clmgmtLicenseExpiredPeriod {
    type uint32;
    units "seconds";
    description
        "This object indicates the elapsed time period since the license
        expired. This object is applicable only if clmgmtLicenseType
        is demo(1),
or extension(2) or gracePeriod(3). Also, this
        value of this object will be valid only after the license
        expires. The object will return 0 for other license types
        or before the license expiry.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```



```

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if
    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}

leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the user modifiable comments
    about the license. This object is initially populated
    with comments from the license file.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

leaf clmgmtLicenseStatus {

```

```

type enumeration {
  enum "inactive" {
    value "1";
  }
  enum "notInUse" {
    value "2";
  }
  enum "inUse" {
    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
  "This object represents status of the license.

```

inactive(1)        - license is installed, but  
not active.

notInUse(2)       - license is installed and  
available for use.

inUse(3)           - the license is being used (by  
a feature).

expiredInUse(4)  
- license is expired but still  
being held by the feature.

expiredNotInUse(5) - license is expired and not being  
held by any feature.

usageCountConsumed(6) - number of entities using this  
licenses has reached the allowed  
limit, no new entities are allowed  
to use this license.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

```

```

leaf clmgmtLicenseStartDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the start date for a subscription
    license. It is optional for subscription linceses to have a
    start date associated with them, they may only have an end

```

date associated with them. This object may be applicable only

when clmgmtLicenseType is paidSubscription(5),

evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is not applicable.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";

}

leaf clmgmtLicenseEndDate {

type snmpv2-tc:DateAndTime;

description

"This object indicates the end date for a subscription license.

This object is applicable only when clmgmtLicenseType is

paidSubscription(5), evaluationSubscription(6) or

extensionSubscription (7). The object will contain an octet

string of length 0 when it is not applicable.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";

}

leaf clmgmtLicensePeriodUsed {

type uint32;

units "seconds";

description

"This

object indicates the time period used for the

Right to use (RTU) licenses. This object is applicable for all

RTU licenses.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";

}

}

}

container clmgmtLicensableFeatureTable {

description

"This table contains list of licensable features in the

image. All the licensable features will have an entry each

in this table irrespective of whether they are using any

licenses currently. Entries in this table are created by

the agent one for each licensable feature in the image.

These entries remain in the table permanently and can not

be deleted. Management application can not create or delete

entries from this table.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

```

list clmgmtLicensableFeatureEntry {
  key "entPhysicalIndex clmgmtFeatureIndex";
  description
    "An entry
in clmgmtLicensableFeatureTable. Each entry represents
  a licensable feature.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type uint32 {
      range "1..4294967295";
    }
    description
      "This object uniquely identifies a licensable feature in
      the device.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
  }

  leaf clmgmtFeatureName {
    type snmp-framework:SnmpAdminString {
      length "0..128";
    }
    description
      "This object indicates the name of the licensable feature
      in the device. Examples of feature names are: 'IPBASE',
      'ADVIPSERVICE'";
    smiv2:max-access
"read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
  }

  leaf clmgmtFeatureVersion {
    type snmp-framework:SnmpAdminString {
      length "0..32";
    }
    description
      "This object indicates the version of the licensable
      feature in the device. Examples of feature versions
      are: '1.0' or '2.0'";
    smiv2:max-access "read-only";
  }

```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";  
}
```

```
leaf clmgmtFeatureValidityPeriodRemaining {  
  type uint32;  
  units "seconds";  
  description  
    "This object indicates the time period remaining before  
    the feature's license expires or transitions. This object is  
    applicable only if clmgmtLicenseType of the license used by  
    this feature is demo(1), or extension(2) or gracePeriod(3) or  
    evalRightToUse(8)."
```

```
  The object will contain 0 if  
  other types of license is used  
  or if the feature does not use any license. If the  
  feature is using multiple licenses, this period will  
  represent the cumulative period remaining from all the  
  licenses used by this feature.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";  
}
```

```
leaf clmgmtFeatureWhatIsCounted {  
  type snmp-framework:SnmpAdminString {  
    length "0..128";  
  }  
  description  
    "This object represents the entity that is being counted  
    by this feature. Examples of entities are IP Phones, number  
    of sessions etc. This object is only applicable for  
    features that use counting licenses. For other features,  
    this object will return empty string.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";  
}
```

```
leaf clmgmtFeatureStartDate {
```

```
  type snmpv2-tc:DateAndTime;  
  description  
    "This object indicates the license start date of the feature.  
    This object is applicable if at least one of the licenses used  
    for this feature has a valid start date. The start date will  
    be the earliest of the valid start dates of all the licenses  
    used for this feature. If none of the licenses used for this  
    feature have a valid start date then this object will contain an  
    octet string of length 0.";
```

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the license end date of the feature.
        This object is applicable if at least one of the licenses used
        for this feature has a valid end date. The end date will
        be the latest of the valid end dates
of all the licenses
        used for this feature. If none of the licenses used for this
        feature have a valid end date then this object will contain an
        octet string of length 0.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This object indicates the license period used for the feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

container clmgmtDevCredExportActionTable {
    description
        "A table for triggering device credentials export action.
        Management application must create this entry to trigger the
        export of device credentials from the device to a file.

        Once the request completes, the management application should
        retrieve the values of the objects
of interest, and then
        delete the entry. In order to prevent old entries from
        clogging the table, entries will be aged out, but an entry
        will never be deleted within 5 minutes of completion.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

    list clmgmtDevCredExportActionEntry {
        key "clmgmtDevCredExportActionIndex";
        description
            "An entry for each device credential export action that

```

is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgtDevCredExportActionStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If

the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtDevCredExportActionStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgtDevCredExportActionStatus` to `active(1)`.

To stop the action from being executed, the management application can delete the entry by setting `clmgtDevCredExportActionStatus` to `destroy(6)` when `clmgtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying

`clmgtDevCredCommandState`. If the action is still in `pending(2)` or `inProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can be retrieved from `clmgtDevCredCommandFailCause`.

Entry can be deleted except when `clmgtLicenseAction` is set to `inProgress(3)`. All entries in this table are volatile and are cleared on agent reset.";

`smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";`

```
leaf clmgtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
}
```

description

"This object uniquely identifies a row in `clmgtDevCredExportActionTable`. The management application chooses this value by reading

clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table.

If an entry already exists with this

index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object.";

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
```

```
  type entity-mib:PhysicalIndexOrZero;
```

```
  description
```

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device";

```
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}
```

```
leaf clmgmtDevCredTransferProtocol {
```

```
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
```

```
  description
```

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

.";

```
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}
```

```
leaf clmgmtDevCredServerAddressType {
```

```
  type inet-address:InetAddressType;
```

```
  description
```

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object. This must be set when clmgmtDevCredTransferProtocol



```

    is not none(1) or local(2).";
    smiv2:defval "unknown";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the the ip address of the server
    from which the files must be read or written to if
    clmgmtDevCredTransferProtocol is not none(1) or local(2).

```

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

```

    The format of this address depends on the value of the
    clmgmtDevCredServerAddressType object";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
}

```

```

description
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object
  must be set when the clmgmtDevCredTransferProtocol is
  ftp(4), rcp(5), scp(7) or sftp(8). If
  clmgmtDevCredTransferProtocol is rcp(5), the remote
  username is sent as the server username in an rcp command
  request sent by the system to a remote rcp server.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description

```

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

```

This object must be set when the
clmgtDevCredTransferProtocol is ftp(4) or scp(7) or
sftp(8). Reading it returns a zero-length string for
security reasons.";
smiv2:defaultval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs
    to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

| Command                                    | Remarks                         |
|--------------------------------------------|---------------------------------|
| -----                                      |                                 |
| -----                                      |                                 |
| noOp(1)                                    | No operation will be performed. |
| getDeviceCredentials(2)                    | Exports device credentials";    |
| smiv2:defaultval "noOp";                   |                                 |
| smiv2:max-access "read-write";             |                                 |
| smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9"; |                                 |
| }                                          |                                 |

```

leaf clmgtDevCredCommandState {
  type cisco-license-mgmt-mib:ClmgtLicenseActionState;
  description
    "This object indicates the state of the action that is

```

```

    executed as a result of setting clmgmtDevCredRowStatus
    to active(1).";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "unknownError" {
      value "2";
    }
    enum "transferProtocolNotSupported"
{
      value "3";
    }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidFile" {
      value "6";
    }
  }
  description
    "This object indicates the the reason for device
    credentials export operation failure.

```

The value of this object is valid only when  
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.  
If the action is completed and the  
action is successful, then also  
none(1) is returned to indicate that  
there are no errors.

unknownError(2) - reason for failure is unknown,  
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not

```

        valid
        invalidFile(6) - The target file specified is not valid.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";
    }

    leaf clmgmtDevCredStorageType {
        type snmpv2-tc:StorageType;
        description
            "This object indicates the storage type for this conceptual
            row. Conceptual rows having the value 'permanent' need not
            allow write-access to any columnar objects in the row.";
        smiv2:defval "volatile";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
    }

    leaf clmgmtDevCredRowStatus {
        type snmpv2-tc:RowStatus;
        description
            "This object indicates the the status of this table entry.
            Once the entry status is set to active(1), the associated
            entry cannot be modified until the action completes
            (clmgmtDevCredCommandStatus is set to a value
            other than inProgress(3)). Once the action completes
            the only operation possible after this is to delete
            the row.

            clmgmtDevCredExportFile is a mandatory object to be
            set when creating this entry.";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
    }
}
}
}

notification clmgmtLicenseExpired {
    description
        "This notification is sent, when a feature license
        expires. This notification will be sent continuously
        every week even after the expiry to alert the
        management
        application.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

    container object-1 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

```

```

}
}

notification clmgmtLicenseExpiryWarning {
  description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification
    when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```

```

    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
        }
    }
}

```

```

notification clmgmtLicenseUsageCountExceeded {
  description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref
    {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```



```

    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
        }
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureWhatIsCounted {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
        }
    }
}

container object-5 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseComments {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
  }
}
}

```

```

notification clmgmtLicenseUsageCountAboutToExceed
{
  description
  "This notification is sent when clmgmtLicenseUsageCountRemaining
  has reached 80% of clmgmtLicenseMaxUsageCount for a counting
  license. This is a warning notification to the management
  application that very soon the maximum count will be reached
  and after that the device will not allow new entities to
  make use of this license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtLicenseStoreUsed {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {

      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }
}

```

```

    }
}

leaf clmgmtLicenseFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
        }
    }
}

container object-4 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

```

```

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

```

```

    leaf clmgmtLicenseUsageCountRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
      }
    }

```

```

  container object-5 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

```

```

    leaf clmgmtFeatureIndex {
      type leafref
    {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }

```

```

    }

    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }

  container object-6 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }

  notification clmgmtLicenseInstalled {
    description

```

"This notification is sent when a license is installed

successfully.";

smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

container object-1 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}

leaf clmgmtLicenseStoreUsed {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-mib:clmgmtLicenseStoreUsed";

}

}

leaf clmgmtLicenseIndex {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-mib:clmgmtLicenseIndex";

}

}

leaf clmgmtLicenseFeatureName {

type leafref {

path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-mib:clmgmtLicenseFeatureName";

}

}

}

container object-2 {

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";

}

}



```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
  }
}

```

container object-3 {

```

leaf entPhysicalIndex {
  type
leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

    }
}

leaf clmgmtLicenseType {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
  }
}

container
object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseComments {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
  }
}

```

```

notification clmgmtLicenseCleared {
  description
    "This notification is sent when a license is cleared
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```

```

mib:clmgmtLicenseIndex";
    }
}

    leaf clmgmtLicenseType {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
        }
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path
"/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

```

```

notification clmgmtLicenseRevoked {
  description
    "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }

```

```

    }

    leaf clmgmtLicenseStoreUsed {

        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
}

    leaf clmgmtLicenseType {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
        }
    }
}

container object-4 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

```



```

notification clmgmtLicenseEULAAccepted {
  description
    "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {

      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}
}
}

notification clmgmtLicenseNotEnforced {
    description
        "This notification is sent when a license does not
        exist for a feature, but the feature is a mandatory
        feature and it should run. This notification will be
        sent out periodically
        to indicate that there is no
        license installed for this feature and it needs to
        be done as soon as possible.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
            }
        }
    }
}

```

```

    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

notification clmgmtLicenseSubscriptionExpiryWarning {
    description
    "This notification is sent when a subscription license of a
    feature is about to expire. This notification will be sent as
    per the following
    schedule:
        Once a week for the last eight weeks
        Once a day for the last week
        Once a hour for the last day";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }
    }
}

```

```

    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf
entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf
clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureEndDate {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
  }
}
}

notification clmgmtLicenseSubscriptionExtExpiryWarning {
  description
  "This notification is sent when the subscription license end
  date of a feature is reached but extension period is left. This
  notification will be sent once a day after the license end date
  is reached.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureIndex";
    }
}

    leaf clmgmtFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {

            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }
}

```

```

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

```

```

leaf clmgmtFeatureEndDate {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
  }
}
}
}

```

```

notification clmgmtLicenseSubscriptionExpired {
  description
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureVersion {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureEndDate {

```



```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
    }
  }
}

```

```

notification clmgmtLicenseEvalRTUTransitionWarning {
  description
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";
}

```

```

container object-1 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

container object-2 {

```

```

  leaf entPhysicalIndex {
    type leafref {

```

```

    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf clmgmtFeatureIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureValidityPeriodRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
    }
  }
}

```

```

notification clmgmtLicenseEvalRTUTransition {
  description
    "This notification is sent, when a feature license transitions
    from a evaluation to a
    Right to use (RTU) license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
}

```

```

    }
}

leaf clmgmtFeatureVersion {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
  }
}
}
}

smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

```

```

smiv2:alias "ciscoLicenseMgmtGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}

-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

```

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

#### IMPORTS

```

    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue
        FROM SNMPv2-TC
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    entPhysicalIndex
        FROM ENTITY-MIB
    ciscoMgmt
        FROM CISCO-SMI;

```

#### ciscoImageLicenseMgmtMIB MODULE-IDENTITY

```

    LAST-UPDATED   "200710160000Z"
    ORGANIZATION   "Cisco Systems Inc."
    CONTACT-INFO
        "Cisco Systems
        Customer Service

```

Postal: 170 W Tasman Drive  
San Jose, CA 95134  
USA  
Tel: +1 800 553 -NETS  
E-mail: cs-snmp@cisco.com"

#### DESCRIPTION

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level. This mechanism is referred to as image level licensing. Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

##### Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

##### Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.
- No upgrades available for advservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define the image level.

If the device is running at advipservices image level, then the boot image level will be 'advipservices'."

SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is used to define the list of license names.

If multiple licenses

are present then this string will contain all the licenses separated by the ',' character.

If the license required to run a device at advipservices image level is advipservices and advsecurity, then the license name list will be 'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of current and next boot image level. This table contains entries for each software module running in an image loaded in the device. The software module is identified by cilmModuleName and the device is identified by entPhysicalIndex."

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license."

INDEX {  
entPhysicalIndex,



```

        cilmModuleName
    }
 ::= { cilmBootImageLevelTable 1 }

```

```

CilmBootImageLevelEntry ::= SEQUENCE {
    cilmModuleName      SnmpAdminString,
    cilmCurrentImageLevel
        BootImageLevel,
    cilmConfiguredBootImageLevel BootImageLevel,
    cilmNextBootImageLevel  BootImageLevel,
    cilmCurrentLicenseStoreIndex Unsigned32,
    cilmCurrentLicenseIndex  Unsigned32,
    cilmNextBootLicenseStoreIndex Unsigned32,
    cilmNextBootLicenseIndex  Unsigned32
}

```

cilmModuleName OBJECT-TYPE

SYNTAX        SnmpAdminString

MAX-ACCESS    not-accessible

STATUS        current

DESCRIPTION

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality. For example, in a wireless image there can be two modules - a base image module and a wireless module."

```
 ::= { cilmBootImageLevelEntry 1 }
```

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX        BootImageLevel

MAX-ACCESS    read-only

STATUS

              current

DESCRIPTION

"This object indicates the current image level that the module is running."

```
 ::= { cilmBootImageLevelEntry 2 }
```

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX        BootImageLevel

MAX-ACCESS    read-write

STATUS        current

DESCRIPTION

"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not

be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability."  
::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot image level is determined based on the availability of required license."  
::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX        Unsigned32  
MAX-ACCESS    read-only  
STATUS        current  
DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

#### cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX        Unsigned32  
MAX-ACCESS    read-only  
STATUS        current  
DESCRIPTION

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

#### cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX        SEQUENCE OF CilmImageLevelToLicenseMapEntry  
MAX-ACCESS    not-accessible  
STATUS        current  
DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

#### cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX        CilmImageLevelToLicenseMapEntry  
MAX-ACCESS    not-accessible  
STATUS        current

#### DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

```
INDEX      {
            entPhysicalIndex,
            cilmModuleName,
            cilmImageLicenseMapIndex
        }
::= { cilmImageLevelToLicenseMapTable 1 }
```

```
CilmImageLevelToLicenseMapEntry ::= SEQUENCE {
    cilmImageLicenseMapIndex  Unsigned32,
    cilmImageLicenseImageLevel BootImageLevel,
    cilmImageLicenseName     LicenseNameList,
    cilmImageLicensePriority  Unsigned32
}
```

#### cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"This is a running  
index used to identify an entry  
of this table."

```
::= { cilmImageLevelToLicenseMapEntry 1 }
```

#### cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the image level at which  
a module can be run. A module can be run at  
different image levels. An entry will be created  
in this table for every module and image level  
combination."

```
::= { cilmImageLevelToLicenseMapEntry 2 }
```

#### cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

#### cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

::= { cilmImageLevelToLicenseMapEntry 4 }

#### -- Global Objects

#### cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure the license."

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

#### -- Notification control

#### cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specify whether or not a notification should be generated on the detection of change in next boot image level.

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered."

REFERENCE

"See also RFC3413 for explanation that notifications are under the ultimate control of the MIB module in this document."

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {  
    cilmCurrentImageLevel,  
    cilmConfiguredBootImageLevel  
}

STATUS current

DESCRIPTION

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively."

::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 2 }

cilmModuleCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance statement for Cisco Image level license mgmt MIB."

```

MODULE      -- this module
MANDATORY-GROUPS {
    cilmAdminGroup,
    cilmNotifGroup
}

GROUP      cilmOperGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license are supported."
::= { cilmModuleCompliances 1 }

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
OBJECTS     {
    cilmCurrentImageLevel,
    cilmConfiguredBootImageLevel,
    cilmNextBootImageLevel,
    cilmCurrentLicenseStoreIndex,
    cilmCurrentLicenseIndex,
    cilmNextBootLicenseStoreIndex,
    cilmNextBootLicenseIndex,
    cilmEULAAccepted,
    cilmImageLevelChangedNotif
}
STATUS      current
DESCRIPTION
    "Objects for performing license set operation for setting
    next boot level."
::= { cilmModuleGroups 1 }

cilmOperGroup OBJECT-GROUP
OBJECTS     {
    cilmImageLicenseImageLevel,
    cilmImageLicenseName,
    cilmImageLicensePriority
}
STATUS      current
DESCRIPTION
    "Objects for getting current image level configuration data."
::= { cilmModuleGroups 2 }

cilmNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { cilmBootImageLevelChanged }
STATUS      current
DESCRIPTION

```

```

"Objects for getting current image level configuration data."
::= { cilmModuleGroups 3 }

END

-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue,
    RowStatus,
    StorageType,
    DateAndTime
        FROM SNMPv2-TC
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    entPhysicalIndex,
    PhysicalIndexOrZero
        FROM ENTITY-MIB
    InetAddressType,
    InetAddress
        FROM INET-ADDRESS-MIB
    ciscoMgmt
        FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY
    LAST-UPDATED "201204190000Z"

```



ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems  
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.  
The licensing mechanism provides flexibility to  
enforce licensing for various features in the system.

The following text introduces different concepts and  
terms those are necessary to understand the MIB definition  
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a  
device. It comprises of product ID, version ID and serial  
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device  
identifiers in the system. For example, the license  
can be locked to the UDI value of one of the devices  
in the system. Locking a license to an UDI guarantees  
that the license will not be moved to a device with a  
different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device  
identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time  
and they expire after that. This period is the usage  
period of a license and it is not based on real time  
clock, but system clock.

EULA:

End User License Agreement.

#### EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

#### RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product. User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

#### EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

#### GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

#### PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide

needed permission for the feature/image  
across different versions.

#### COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

#### UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

#### IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

#### FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

#### LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid, non-tamper able and complete license.

#### LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

#### DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

#### REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

#### PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

#### REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

#### LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

#### STEPS TO INSTALL A LICENSE:

- To install a license, the management application
1. Retrieves device credentials of the device.
  2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
  3. Executes the license install action.

#### STEPS TO CLEAR A LICENSE:

- To clear a license, the management application
1. Identifies the license to be cleared using license index.

2. Executes the license clear action.

#### STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

#### STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

#### STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

#### STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be

exported to

3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:  
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
  - evalRightToUse
  - rightToUse
- o Added following objects to clmgmtLicenseInfoTable
  - clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
  - clmgmtFeaturePeriodUsed
- o Added the following notifications
  - clmgmtLicenseEvalRTUTransitionWarning
  - clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
  - clmgmtLicenseRTUGroup
  - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
  - paidSubscription
  - evaluationSubscription
  - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
  - clmgmtLicenseStartDate
  - clmgmtLicenseEndDate
- o Added following
  - objects to clmgmtLicensableFeatureTable
    - clmgmtFeatureStartDate
    - clmgmtFeatureEndDate
- o Added the following notifications
  - clmgmtLicenseSubscriptionExpiryWarning
  - clmgmtLicenseSubscriptionExtExpiryWarning
  - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
  - clmgmtLicenseSubscriptionGroup
  - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.

It is not necessary to have values assigned contiguously.

The value for each license must remain constant

at least from one re-initialization of the entity's

network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex

convention. The latter defines a greater than zero value

used to identify a license in the managed system.

This

extension permits the additional value of zero. The value

zero is object-specific and must therefore be defined as

part of the description of any object which uses this

syntax. Examples of the usage of zero might include

situations where license was not present or unknown."

SYNTAX Unsigned32



ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."

SYNTAX INTEGER {

none(1),

local(2),

tftp(3),

ftp(4),

rcp(5),

http(6),

scp(7),

sftp(8)

}

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

none(1) - action is not yet scheduled to be executed.

pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.

inProgress(3) - action execution has started and is in progress.

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB

objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

```

SYNTAX      INTEGER {
    none(1),
    pending(2),
    inProgress(3),
    successful(4),
    partiallySuccessful(5),
    failed(6)
}

```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.

generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

invalidLicenseFilePath(6) - The license file path is not accessible.

invalidLicenseFile(7) - Contents of license file are not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for

this expiring license.  
 licenseInUse(13) - License file is in use by a  
 feature/image.  
 invalidLicenseStore(14) - License store is not valid.  
 licenseStorageFull(15) - There is  
 no more space in the  
 license storage.  
 invalidPermissionTicketFile(16) - The permission ticket file  
 path is not accessible.  
 invalidPermissionTicket(17) - The permission ticket file  
 contents are not valid.  
 invalidRehostTicketFile(18) - The rehost ticket file path is  
 not accessible.  
 invalidRehostTicket(19) - The rehost ticket file contents  
 are not valid.  
 invalidLicenseBackupFile(20) - License backup store path  
 is not accessible.  
 licenseClearInProgress(21) - When license clear action is  
 in progress, license backup  
 action is not permitted to  
 avoid race conditions. This  
  
 error code is sent back in  
 response to a license backup  
 action when a license clear  
 action is in progress or in  
 pending state. Try again in few  
 seconds.  
 invalidLicenseEULAFile(22) - EULA file path is not accessible."

SYNTAX      INTEGER {  
     none(1),  
     generalFailure(2),  
     transferProtocolNotSupported(3),  
     fileServerNotReachable(4),  
     unrecognizedEntPhysicalIndex(5),  
     invalidLicenseFilePath(6),  
     invalidLicenseFile(7),  
     invalidLicenseLine(8),  
     licenseAlreadyExists(9),  
     licenseNotValidForDevice(10),  
     invalidLicenseCount(11),  
  
     invalidLicensePeriod(12),  
     licenseInUse(13),  
     invalidLicenseStore(14),  
     licenseStorageFull(15),  
     invalidPermissionTicketFile(16),  
     invalidPermissionTicket(17),

```

        invalidRehostTicketFile(18),
        invalidRehostTicket(19),
        invalidLicenseBackupFile(20),
        licenseClearInProgress(21),
        invalidLicenseEULAFile(22)
    }

```

#### clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX        Unsigned32 (1..4294967295)

MAX-ACCESS    read-only

STATUS        current

#### DESCRIPTION

"This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions

when creating entries in clmgmtLicenseActionTable.

Following this approach does not guarantee collision free

row creation, but will reduce the probability. The

collision will happen if two management applications read this

object at the same time and attempt to create an entry

with this value at the same time. In this case, the

management application whose request is processed after the first

request will get an error and the process of reading this object

and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

#### clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX        SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS    not-accessible

STATUS        current

#### DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of

the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more

information on what these actions do on the device.  
Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

#### 1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

#### 2. CREATE-AND-WAIT method

Management application sets clmgmtLicenseActionRowStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtLicenseActionRowStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtLicenseActionRowStatus to destroy(6) when clmgmtLicenseActionState is pending(2).

The status of action execution can be known by querying clmgmtLicenseActionState. If the action is still in pending(2) or in inProgress(3) state, the management

application need to check back again after few seconds. Once the action completes and status of the action is failed(6), the reason for failure can be retrieved from clmgmtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgmtLicenseActionResultTable.

Not all objects in the entry are needed to execute every action. Below is the list of actions and the required objects that are needed to be set for executing that action.

#### 1. Installing a license

The following MIB objects need to be set for installing a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseStore
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAcceptEULA
- j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

clmgmtLicenseStore need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

#### 2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

#### 3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

#### 4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

#### 5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

#### 6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile

- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX      { clmgmtLicenseActionIndex }
::= { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex      Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType InetAddressType,
    clmgmtLicenseServerAddress     InetAddress,
    clmgmtLicenseServerUsername     SnmpAdminString,
    clmgmtLicenseServerPassword     SnmpAdminString,
    clmgmtLicenseFile               SnmpAdminString,
    clmgmtLicenseStore               Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile     SnmpAdminString,
    clmgmtLicenseBackupFile            SnmpAdminString,
    clmgmtLicenseStopOnFailure         TruthValue,
    clmgmtLicenseAction                INTEGER,
    clmgmtLicenseActionState            ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition           Unsigned32,
    clmgmtLicenseActionFailCause        ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType      StorageType,
    clmgmtLicenseActionRowStatus        RowStatus,
    clmgmtLicenseAcceptEULA             TruthValue,
    clmgmtLicenseEULAFile               SnmpAdminString
}
```

```
clmgmtLicenseActionIndex OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```



"This object uniquely identifies a row in  
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex  
while creating an entry in this table. If an entry already  
exists with this index, the creation of the entry will not  
continue and error will be returned. The management application  
should read the value of clmgmtNextFreeLicenseActionIndex  
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device  
where the action is being executed. This object is mainly  
used in devices where one device is acting as a master and  
rest of the devices as slaves. The master device is  
responsible for SNMP communication with the management  
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this  
object is not set, the license action will be executed on  
the master device. Note: This object need not be set if  
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used  
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files  
required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

## OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

### DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object.

This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

## clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

### DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

## clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

### DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 6 }

## clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.  
 This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."  
 DEFVAL { "" }  
 ::= { clmgmtLicenseActionEntry 7 }

#### clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."  
 DEFVAL { "" }  
 ::= { clmgmtLicenseActionEntry 8 }

#### clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."  
 DEFVAL { 0 }  
 ::= { clmgmtLicenseActionEntry 9 }

#### clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object indicates the the license index of the license

that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in

the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action."

```
DEFVAL      { "" }
::= { clmgmtLicenseActionEntry 13 }
```

#### clmgmtLicenseStopOnFailure OBJECT-TYPE

```
SYNTAX      TruthValue
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
```

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

```
DEFVAL      { false }
::= { clmgmtLicenseActionEntry 14 }
```

#### clmgmtLicenseAction OBJECT-TYPE

```
SYNTAX      INTEGER {
                    noOp(1),
                    install(2),
                    clear(3),
                    processPermissionTicket(4),
                    regenerateLastRehostTicket(5),
                    backup(6),
                    generateEULA(7)
                }
```

```
MAX-ACCESS  read-create
STATUS
```

current

#### DESCRIPTION

"This object indicates the the command/action to be executed.

| Command                    | Remarks                                                                   |
|----------------------------|---------------------------------------------------------------------------|
| -----                      | -----                                                                     |
| noOp(1)                    | No operation will be performed.                                           |
| install(2)                 | Installs the license.                                                     |
| clear(3)                   | Clears the license.                                                       |
| processPermissionTicket(4) | Processes thee permission ticket and generates and exports rehost ticket. |

regenerateLastRehostTicket(5) Generates and exports the last generated rehost ticket.

backup(6) Backs up all the licenses installed currently onto a backup store.

generateEULA(7)  
Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file."

DEFVAL { noOp }  
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management

application can make

intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries

will be aged out, but an

entry will never be deleted within 5 minutes of completion"

::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

Management application should set this object to true(1) when installing licenses that need EULA acceptance."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need

to

be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 22 }

-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license."

::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license.

These entries are created immediately after action execution when the action involves multiple licenses.



These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

```
INDEX      {
            clmgmtLicenseActionIndex,
            clmgmtLicenseNumber
          }
::= { clmgmtLicenseActionResultTable 1 }
```

```
ClmgmtLicenseActionResultEntry ::= SEQUENCE {
    clmgmtLicenseNumber      Unsigned32,
    clmgmtLicenseIndivActionState  ClmgmtLicenseActionState,
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}
```

```
clmgmtLicenseNumber OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object indicates the sequence number of this license
    in the list of licenses on which the action is executed.
    For example, if there are 3 licenses in a license file
    when executing license install action, this object will
    have values 1, 2 and 3 respectively as ordered in the
    license file."
::= { clmgmtLicenseActionResultEntry 1 }
```

```
clmgmtLicenseIndivActionState OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionState
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the state of action on this
    individual license."
::= { clmgmtLicenseActionResultEntry 2 }
```

```
clmgmtLicenseIndivActionFailCause OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionFailCause
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the reason for action failure
    on this
    individual license"
::= { clmgmtLicenseActionResultEntry 3 }
```

-- License Store Info Table

clmgtLicenseStoreInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about all the license stores allocated on the device."

::= { clmgtLicenseInformation 1 }

clmgtLicenseStoreInfoEntry OBJECT-TYPE

SYNTAX ClmgtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgtLicenseStoreInfoTable. Each entry contains information about a license store allocated on the device"

INDEX {  
entPhysicalIndex,  
clmgtLicenseStoreIndex  
}

::= { clmgtLicenseStoreInfoTable 1 }

ClmgtLicenseStoreInfoEntry ::= SEQUENCE {

clmgtLicenseStoreIndex

Unsigned32,

clmgtLicenseStoreName SnmpAdminString,

clmgtLicenseStoreTotalSize Unsigned32,

clmgtLicenseStoreSizeRemaining Unsigned32

}

clmgtLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license store within the device."

::= { clmgtLicenseStoreInfoEntry 1 }

clmgtLicenseStoreName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the license store

within the device. It is a file in device's local file system i.e., either on a local disk or flash or some other storage media. For example, the value of this object can be 'disk1:lic\_store\_1.txt' or 'flash:lic\_store\_2.txt'

```
::= { clmgmtLicenseStoreInfoEntry
2 }
```

clmgmtLicenseStoreTotalSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of bytes that are allocated to the license store."

```
::= { clmgmtLicenseStoreInfoEntry 3 }
```

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of bytes still remaining to be used for new license installations in the license store."

```
::= { clmgmtLicenseStoreInfoEntry 4 }
```

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects that provide licensing related information

at the device level. Entries will exist

only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack."

```
::= { clmgmtLicenseInformation 2 }
```

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE

SYNTAX      ClmgmtLicenseDeviceInfoEntry  
 MAX-ACCESS    not-accessible  
 STATUS        current  
 DESCRIPTION  
     "An entry in clmgmtLicenseDeviceInfoTable. Each entry  
     contains device level licensing information for a device."  
 INDEX        { entPhysicalIndex }  
 ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {  
     clmgmtDefaultLicenseStore Unsigned32  
 }

clmgmtDefaultLicenseStore OBJECT-TYPE

SYNTAX        Unsigned32 (1..4294967295)  
 MAX-ACCESS    read-only  
 STATUS  
     current  
 DESCRIPTION  
     "This object indicates the clmgmtLicenseStoreIndex of  
     default store in the device. There will be only one  
     default license store per device. If no license store  
     is specified during license install, this default license  
     store will be used."  
 ::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE

SYNTAX        SEQUENCE OF ClmgmtLicenseInfoEntry  
 MAX-ACCESS    not-accessible  
 STATUS        current  
 DESCRIPTION  
     "This table contains information about all the licenses  
     installed on the device."  
 ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE

SYNTAX        ClmgmtLicenseInfoEntry  
 MAX-ACCESS    not-accessible  
 STATUS        current  
 DESCRIPTION  
     "An entry in clmgmtLicenseInfoTable. Each entry contains  
     information about a license installed on the device. This  
     entry gets created when  
 a license is installed successfully.  
     Management application can not create these entries directly, but

will do so indirectly by executing license install action.  
Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

```
INDEX      {
            entPhysicalIndex,
            clmgmtLicenseStoreUsed,
            clmgmtLicenseIndex
        }
```

```
::= { clmgmtLicenseInfoTable 1 }
```

```
ClmgmtLicenseInfoEntry ::= SEQUENCE {
    clmgmtLicenseStoreUsed      Unsigned32,
    clmgmtLicenseIndex          ClmgmtLicenseIndex,
    clmgmtLicenseFeatureName     SnmpAdminString,
    clmgmtLicenseFeatureVersion  SnmpAdminString,
    clmgmtLicenseType           INTEGER,
    clmgmtLicenseCounted        TruthValue,
    clmgmtLicenseValidityPeriod  Unsigned32,
    clmgmtLicenseValidityPeriodRemaining Unsigned32,
    clmgmtLicenseExpiredPeriod   Unsigned32,
    clmgmtLicenseMaxUsageCount   Unsigned32,
    clmgmtLicenseUsageCountRemaining Unsigned32,
    clmgmtLicenseEULAStatus      TruthValue,
    clmgmtLicenseComments       SnmpAdminString,
    clmgmtLicenseStatus         INTEGER,
    clmgmtLicenseStartDate       DateAndTime,
    clmgmtLicenseEndDate        DateAndTime,
    clmgmtLicensePeriodUsed      Unsigned32
}
```

clmgmtLicenseStoreUsed OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."

```
::= { clmgmtLicenseInfoEntry
```

```
1 }
```

clmgmtLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license within the device."

::= { clmgmtLicenseInfoEntry 2 }

#### clmgmtLicenseFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

##### DESCRIPTION

"This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'."

::= { clmgmtLicenseInfoEntry 3 }

#### clmgmtLicenseFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

##### DESCRIPTION

"This object indicates the version of the feature that is using or can use this license. Examples of feature version are: '1.0', '2.0'"

::= { clmgmtLicenseInfoEntry 4 }

#### clmgmtLicenseType OBJECT-TYPE

SYNTAX INTEGER {  
    demo(1),  
    extension(2),  
    gracePeriod(3),  
    permanent(4),  
    paidSubscription(5),  
    evaluationSubscription(6),  
    extensionSubscription(7),  
    evalRightToUse(8),  
    rightToUse(9),  
    permanentRightToUse(10)  
}

MAX-ACCESS read-only

STATUS current

##### DESCRIPTION

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1)

- demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of the product. This is a Right To Use license which is not in evaluation mode for a limited time."

```

::=
{ clmgmtLicenseInfoEntry 5 }

```

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the license is counted license.

true(1) - counted license

false(2) - uncounted license"

```

::= { clmgmtLicenseInfoEntry 6 }

```

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX      Unsigned32  
UNITS        "seconds"  
MAX-ACCESS   read-only  
STATUS       current  
DESCRIPTION

"This object indicates the time period the license is valid for.  
This object is applicable only if clmgmtLicenseType is demo(1),  
or extension(2) or gracePeriod(3) or evalRightToUse(8). The  
object will return 0 for other license types."

::= { clmgmtLicenseInfoEntry 7 }

#### clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX      Unsigned32  
UNITS        "seconds"  
MAX-ACCESS   read-only  
STATUS  
             current

#### DESCRIPTION

"This object indicates the time period remaining before the  
license expires or transitions to rightToUse(9) license. This  
object is applicable only if clmgmtLicenseType is demo(1), or  
extension(2) or gracePeriod(3) or evalRightToUse(8). The object  
will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

#### clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX      Unsigned32  
UNITS        "seconds"  
MAX-ACCESS   read-only  
STATUS       current

#### DESCRIPTION

"This object indicates the elapsed time period since the license  
expired. This object is applicable only if clmgmtLicenseType  
is demo(1), or extension(2) or gracePeriod(3). Also, this  
value of this object will be valid only after the license  
expires. The object will return 0 for other license types  
or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

#### clmgmtLicenseMaxUsageCount

##### OBJECT-TYPE

SYNTAX      Unsigned32  
MAX-ACCESS   read-only  
STATUS       current

#### DESCRIPTION

"This object indicates the maximum number of entities that  
can use this license. This object is applicable only if  
clmgmtLicenseCounted is true(1). The entity that is being



counted can be anything and it depends on the licensable  
feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can  
still use this license. This object is applicable only  
if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user  
accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments  
about the license. This object is initially populated  
with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

inactive(1),

notInUse(2),

inUse(3),

expiredInUse(4),

expiredNotInUse(5),

usageCountConsumed(6)

}

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but  
not active.

notInUse(2) - license is installed and  
available for use.

inUse(3) - the license is being used (by  
a feature).

expiredInUse(4) - license is expired but still  
being held by the feature.

expiredNotInUse(5) - license is expired and not being  
held by any feature.

usageCountConsumed(6) - number of entities using this  
licenses has reached the allowed  
limit, no new entities are allowed  
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

## clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object

indicates the start date for a subscription

license. It is optional for subscription licenses to have a  
start date associated with them, they may only have an end  
date associated with them. This object may be applicable only  
when clmgmtLicenseType is paidSubscription(5),  
evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is  
not applicable."

::= { clmgmtLicenseInfoEntry 15 }

## clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object indicates the end date for a subscription license.

This object is applicable only when clmgmtLicenseType is  
paidSubscription(5), evaluationSubscription(6) or  
extensionSubscription (7). The object will contain an octet  
string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry

16 }

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the  
Right to use (RTU) licenses. This object is applicable for all  
RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the  
image. All the licensable features will have an entry each  
in this table irrespective of whether they are using any  
licenses currently. Entries in this table are created by  
the agent one for each licensable feature in the image.  
These entries remain in the table permanently and can not

be deleted. Management application can not create or delete  
entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents  
a licensable feature."

INDEX {  
entPhysicalIndex,  
clmgmtFeatureIndex  
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

clmgmtFeatureIndex Unsigned32,  
clmgmtFeatureName SnmpAdminString,  
clmgmtFeatureVersion SnmpAdminString,  
clmgmtFeatureValidityPeriodRemaining Unsigned32,

```

        clmgmtFeatureWhatIsCounted      SnmpAdminString,
        clmgmtFeatureStartDate          DateAndTime,
        clmgmtFeatureEndDate
            DateAndTime,
        clmgmtFeaturePeriodUsed          Unsigned32
    }

```

#### clmgmtFeatureIndex OBJECT-TYPE

```

SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object uniquely identifies a licensable feature in
    the device."
 ::= { clmgmtLicensableFeatureEntry 1 }

```

#### clmgmtFeatureName OBJECT-TYPE

```

SYNTAX      SnmpAdminString (SIZE (0..128))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'"
 ::= { clmgmtLicensableFeatureEntry 2 }

```

#### clmgmtFeatureVersion OBJECT-TYPE

```

SYNTAX      SnmpAdminString (SIZE (0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the version of the licensable
    feature in the device. Examples
of feature versions
    are: '1.0' or '2.0'"
 ::= { clmgmtLicensableFeatureEntry 3 }

```

#### clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

```

SYNTAX      Unsigned32
UNITS       "seconds"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the time period remaining before
    the feature's license expires or transitions. This object is
    applicable only if clmgmtLicenseType of the license used by
    this feature is demo(1), or extension(2) or gracePeriod(3) or
    evalRightToUse(8).

```

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

#### clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

##### DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

#### clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

##### DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

#### clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

##### DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for  
clmgmtDevCredExportActionIndex that can be used to create  
an entry in clmgmtDevCredExportActionTable. The management  
application should read this object first and then use this  
as the value for clmgmtDevCredExportActionIndex to avoid  
collisions when creating entries in  
clmgmtDevCredExportActionTable. Following this approach does  
not guarantee collision free row creation, but will reduce  
the probability. The collision will happen if two  
management applications read this object at the same time and  
attempt to create an entry with this value at the same time.  
In this case, the management application whose request is  
processed after the first request

will get an error and the

process of reading this object and entry creation needs to be  
repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.  
Management application must create this entry to trigger the  
export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can

be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset."

INDEX { clmgmtDevCredExportActionIndex }  
::= { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry ::= SEQUENCE {  
    clmgmtDevCredExportActionIndex Unsigned32,  
    clmgmtDevCredEntPhysicalIndex PhysicalIndexOrZero,  
    clmgmtDevCredTransferProtocol ClmgmtLicenseTransferProtocol,  
    clmgmtDevCredServerAddressType InetAddressType,  
    clmgmtDevCredServerAddress InetAddress,  
    clmgmtDevCredServerUsername SnmpAdminString,  
    clmgmtDevCredServerPassword SnmpAdminString,  
    clmgmtDevCredExportFile SnmpAdminString,  
    clmgmtDevCredCommand INTEGER,  
    clmgmtDevCredCommandState ClmgmtLicenseActionState,  
    clmgmtDevCredCommandFailCause INTEGER,  
    clmgmtDevCredStorageType  
    StorageType,  
    clmgmtDevCredRowStatus RowStatus  
}

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in clmgmtDevCredExportActionTable. The management application chooses this value by reading clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This



object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry

3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the  
 clmgmtDevCredServerAddressType  
 object"  
 DEFVAL { "" }  
 ::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE  
 SYNTAX SnmpAdminString (SIZE (0..96))  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object indicates the remote user name for accessing  
 files via ftp, rcp, sftp or scp protocols. This object  
 must be set when the clmgmtDevCredTransferProtocol is  
 ftp(4), rcp(5), scp(7) or sftp(8). If  
 clmgmtDevCredTransferProtocol is rcp(5), the remote  
 username is sent as the server username in an rcp command  
 request sent by the system to a remote rcp server."  
 DEFVAL { "" }  
 ::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE  
 SYNTAX SnmpAdminString (SIZE (0..96))  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object indicates the password used by ftp, sftp or  
 scp for copying  
 a file to/from an ftp/sftp/scp server.  
 This object must be set when the  
 clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or  
 sftp(8). Reading it returns a zero-length string for  
 security reasons."  
 DEFVAL { "" }  
 ::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE  
 SYNTAX SnmpAdminString (SIZE (0..255))  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION  
 "This object represents file where device credentials needs  
 to be exported to."  
 ::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE  
 SYNTAX INTEGER {  
 noOp(1),

```

        getDeviceCredentials(2)
    }
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION
    "This object indicates the the command to be executed.

```

| Command | Remarks                         |
|---------|---------------------------------|
| -----   | -----                           |
| noOp(1) | No operation will be performed. |

```

        getDeviceCredentials(2)    Exports device credentials"
DEFVAL        { noOp }
::= { clmgmtDevCredExportActionEntry 9 }

```

#### clmgmtDevCredCommandState OBJECT-TYPE

```

SYNTAX        ClmgmtLicenseActionState
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
    "This object indicates the state of the action that is
    executed as a result of setting clmgmtDevCredRowStatus
    to active(1)."
::= { clmgmtDevCredExportActionEntry 10 }

```

#### clmgmtDevCredCommandFailCause OBJECT-TYPE

```

SYNTAX        INTEGER {
    none(1),
    unknownError(2),
    transferProtocolNotSupported(3),
    fileServerNotReachable(4),
    unrecognizedEntPhysicalIndex(5),
    invalidFile(6)
}

```

```

MAX-ACCESS    read-only
STATUS        current
DESCRIPTION
    "This object indicates the the reason for device
    credentials export operation failure.

```

The value of this object is valid only when  
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.  
If the action is completed and the

action is successful, then also  
 none(1) is returned to indicate that  
 there are no errors.  
 unknownError(2) - reason for failure is unknown,  
 operation failed, no operation is  
 performed  
 transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
 given is not supported.  
 fileServerNotReachable(4) - file server is not reachable.  
 unrecognizedEntPhysicalIndex(5) - entPhysicalIndex  
 is not  
 valid  
 invalidFile(6) - The target file specified is not valid."  
 ::= { clmgmtDevCredExportActionEntry 11 }

#### clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType  
 MAX-ACCESS read-create  
 STATUS current

##### DESCRIPTION

"This object indicates the storage type for this conceptual  
 row. Conceptual rows having the value 'permanent' need not  
 allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtDevCredExportActionEntry 12 }

#### clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus  
 MAX-ACCESS read-create  
 STATUS current

##### DESCRIPTION

"This object indicates the the status of this table entry.  
 Once the entry status is set to active(1), the associated  
 entry cannot be modified until the action completes  
 (clmgmtDevCredCommandStatus is set to a value  
 other than  
 inProgress(3)). Once the action completes  
 the only operation possible after this is to delete  
 the row.

clmgmtDevCredExportFile is a mandatory object to be  
 set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

#### clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

##### DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired  
clmgmtLicenseExpiryWarning  
clmgmtLicenseUsageCountExceeded  
clmgmtLicenseUsageCountAboutToExceed  
clmgmtLicenseSubscriptionExpiryWarning  
clmgmtLicenseSubscriptionExtExpiryWarning  
clmgmtLicenseSubscriptionExpired  
clmgmtLicenseEvalRTUTransitionWarning  
clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

#### clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

##### DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled  
clmgmtLicenseCleared  
clmgmtLicenseRevoked  
clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

#### clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

##### DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

clmgmtLicenseNotEnforced"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgtLicenseExpired NOTIFICATION-TYPE

OBJECTS {  
    clmgtFeatureName,  
    clmgtFeatureVersion  
}

STATUS current

DESCRIPTION

"This notification is sent, when a feature license expires. This notification will be sent continuously every week even after the expiry to alert the management application."

::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgtLicenseExpiryWarning NOTIFICATION-TYPE

OBJECTS {  
    clmgtFeatureName,  
    clmgtFeatureVersion,  
    clmgtFeatureValidityPeriodRemaining  
}

STATUS current

DESCRIPTION

"This notification is sent when a license is about to

expire. This notification will go out multiple times.

First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."

::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgtLicenseUsageCountExceeded NOTIFICATION-TYPE

OBJECTS {  
    clmgtLicenseFeatureName,  
    clmgtLicenseFeatureVersion,  
    clmgtLicenseMaxUsageCount,  
    clmgtFeatureWhatIsCounted,  
    clmgtLicenseComments  
}

STATUS current

DESCRIPTION

"This notification is sent when clmgtLicenseUsageCountRemaining has reached clmgtLicenseMaxUsageCount for a counting license."

::= { ciscoLicenseMgmtMIBNotifs 3 }

#### clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

OBJECTS {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseMaxUsageCount,  
    clmgmtLicenseUsageCountRemaining,  
    clmgmtFeatureWhatIsCounted,  
    clmgmtLicenseComments  
}

STATUS current

##### DESCRIPTION

"This notification is sent when clmgmtLicenseUsageCountRemaining has reached 80% of clmgmtLicenseMaxUsageCount for a counting license. This is a warning notification to the management application that very soon the maximum count will be reached and after that the device will not allow new entities to make use of this license."

::= { ciscoLicenseMgmtMIBNotifs 4 }

#### clmgmtLicenseInstalled NOTIFICATION-TYPE

OBJECTS {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}

STATUS current

##### DESCRIPTION

"This notification is sent when a license is installed successfully."

::= { ciscoLicenseMgmtMIBNotifs 5 }

#### clmgmtLicenseCleared NOTIFICATION-TYPE

OBJECTS {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}

STATUS current

##### DESCRIPTION

"This notification is sent when a license is cleared successfully."

::= { ciscoLicenseMgmtMIBNotifs 6 }

#### clmgmtLicenseRevoked NOTIFICATION-TYPE

OBJECTS {

```

        clmgmtLicenseFeatureName,
        clmgmtLicenseFeatureVersion,
        clmgmtLicenseType,
        clmgmtLicenseComments
    }
STATUS
    current
DESCRIPTION
    "This notification is sent when a license is revoked
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 7 }

```

#### clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS     current
DESCRIPTION
    "This notification is sent when a user accepts End User
    License Agreement (EULA) for a license."
::= { ciscoLicenseMgmtMIBNotifs 8 }

```

#### clmgmtLicenseNotEnforced NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS     current
DESCRIPTION
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically to indicate that there is no

```

```

license installed for this feature and it needs to
    be done as soon as possible."
::= { ciscoLicenseMgmtMIBNotifs 9 }

```

#### clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtFeatureName,
    clmgmtFeatureVersion,
    clmgmtFeatureEndDate
}
STATUS     current
DESCRIPTION
    "This notification is sent when a subscription license of a

```



feature is about to expire. This notification will be sent as  
per the following schedule:  
Once a week for the last eight weeks  
Once a day for the last week  
Once a hour for the last day"

::= { ciscoLicenseMgmtMIBNotifs 10 }

#### clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureEndDate  
}

STATUS

current

DESCRIPTION

"This notification is sent when the subscription license end  
date of a feature is reached but extension period is left. This  
notification will be sent once a day after the license end date  
is reached."

::= { ciscoLicenseMgmtMIBNotifs 11 }

#### clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureEndDate  
}

STATUS current

DESCRIPTION

"This notification will be sent after a subscription license  
of a feature completely expires. It will be sent once a day  
after the license has completely expired"

::= { ciscoLicenseMgmtMIBNotifs 12 }

#### clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureValidityPeriodRemaining  
}

STATUS current

DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU)  
license transition is about to happen. The first notification  
will be sent 10 days before the transition and second  
notification will be sent 5 days before the transition."

::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
```

STATUS current

DESCRIPTION

"This notification is sent, when a feature license transitions  
from a evaluation to a Right to use (RTU) license."

::= { ciscoLicenseMgmtMIBNotifs 14 }

-- Conformance

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBConform 2 }

ciscoLicenseMgmtCompliance

MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"Compliance statement for Cisco license mgmt MIB."

MODULE -- this module

MANDATORY-GROUPS {

```
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}
```

GROUP clmgmtLicenseStoreInformationGroup

DESCRIPTION

"This group is mandatory for all devices where  
multiple license stores are supported."

::= { ciscoLicenseMgmtCompliances 1 }

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance statement for Cisco license mgmt MIB."

```

MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."

GROUP      clmgmtLicenseSubscriptionGroup
DESCRIPTION
    "This object group is mandatory for all devices
that
    support subscription licensing."

GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support subscription licensing."

GROUP      clmgmtLicenseRTUGroup
DESCRIPTION
    "This object group is mandatory for all devices that
    support Right to Use (RTU) licensing."

GROUP      clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support Right to use (RTU) licensing."
::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

```

```

clmgmtLicenseDeploymentGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeLicenseActionIndex,
    clmgmtLicenseActionEntPhysicalIndex,
    clmgmtLicenseActionTransferProtocol,
    clmgmtLicenseServerAddressType,

```

```

    clmgmtLicenseServerAddress,
    clmgmtLicenseServerUsername,
    clmgmtLicenseServerPassword,
    clmgmtLicenseFile,
    clmgmtLicenseStore,
    clmgmtLicenseActionLicenseIndex,
    clmgmtLicensePermissionTicketFile,
    clmgmtLicenseRehostTicketFile,
    clmgmtLicenseBackupFile,
    clmgmtLicenseStopOnFailure,
    clmgmtLicenseAction,
    clmgmtLicenseActionState,
    clmgmtLicenseJobQPosition,
    clmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType,
    clmgmtLicenseActionRowStatus,
    clmgmtLicenseIndivActionState,
    clmgmtLicenseIndivActionFailCause,
    clmgmtLicenseAcceptEULA,
    clmgmtLicenseEULAFile

```

```

}

```

```

STATUS      current

```

```

DESCRIPTION

```

```

    "A collection of objects for performing license deployment
    i.e., license installation, clear and revoke"

```

```

::= { ciscoLicenseMgmtGroups 1 }

```

```

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

```

```

OBJECTS      {
    clmgmtLicenseStoreName,
    clmgmtLicenseStoreTotalSize,
    clmgmtLicenseStoreSizeRemaining
}

```

```

STATUS      current

```

```

DESCRIPTION

```

```

    "A collection of objects that provide information about
    license storages in the device."

```

```

::= { ciscoLicenseMgmtGroups 2 }

```

```

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP

```

```

OBJECTS      { clmgmtDefaultLicenseStore }

```

```

STATUS      current

```

```

DESCRIPTION

```

```

    "A collection of objects that provide information about
    device level licensing support information in the device."

```

```

::= { ciscoLicenseMgmtGroups 3 }

```

#### clmgmtLicenseInformationGroup OBJECT-GROUP

```
OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseType,
    clmgmtLicenseCounted,
    clmgmtLicenseValidityPeriod,
    clmgmtLicenseValidityPeriodRemaining,
    clmgmtLicenseExpiredPeriod,
    clmgmtLicenseMaxUsageCount,
    clmgmtLicenseUsageCountRemaining,
    clmgmtLicenseEULAStatus,
    clmgmtLicenseComments,
    clmgmtLicenseStatus
}
```

STATUS current

#### DESCRIPTION

"A collection of objects that provide information about licenses and its state."

::= { ciscoLicenseMgmtGroups 4 }

#### clmgmtLicensableFeatureInformationGroup OBJECT-GROUP

```
OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion,

    clmgmtFeatureValidityPeriodRemaining,
    clmgmtFeatureWhatIsCounted
}
```

STATUS current

#### DESCRIPTION

"A collection of objects that provide information about licensable features in the software image."

::= { ciscoLicenseMgmtGroups 5 }

#### clmgmtLicenseDevCredGroup OBJECT-GROUP

```
OBJECTS      {
    clmgmtNextFreeDevCredExportActionIndex,
    clmgmtDevCredEntPhysicalIndex,
    clmgmtDevCredTransferProtocol,
    clmgmtDevCredServerAddressType,
    clmgmtDevCredServerAddress,
    clmgmtDevCredServerUsername,
    clmgmtDevCredServerPassword,
    clmgmtDevCredExportFile,
    clmgmtDevCredCommand,
    clmgmtDevCredCommandState,
    clmgmtDevCredCommandFailCause,
}
```

```

    clmgmtDevCredStorageType,
        clmgmtDevCredRowStatus
    }
STATUS      current
DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
::= { ciscoLicenseMgmtGroups 6 }

```

```

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
::= { ciscoLicenseMgmtGroups 7 }

```

```

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseExpired,
    clmgmtLicenseExpiryWarning,
    clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license usage."
::= { ciscoLicenseMgmtGroups 8 }

```

```

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseInstalled,
    clmgmtLicenseCleared,
    clmgmtLicenseRevoked,
    clmgmtLicenseEULAAccepted
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license deployment."
::= { ciscoLicenseMgmtGroups 9 }

```

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP  
NOTIFICATIONS { clmgmtLicenseNotEnforced }  
STATUS current  
DESCRIPTION  
"A collection of notifications related to license errors."  
::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP  
OBJECTS {  
clmgmtLicenseStartDate,  
clmgmtLicenseEndDate,  
clmgmtFeatureStartDate,  
clmgmtFeatureEndDate  
}  
STATUS current  
DESCRIPTION  
"A collection of objects that provide information specific to  
subscription licenses."  
::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP  
NOTIFICATIONS {  
clmgmtLicenseSubscriptionExpiryWarning,  
clmgmtLicenseSubscriptionExtExpiryWarning,  
clmgmtLicenseSubscriptionExpired  
}  
STATUS current  
DESCRIPTION  
"A collection of notifications related to usage of subscription  
licenses."  
::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP  
OBJECTS {  
clmgmtLicensePeriodUsed,  
clmgmtFeaturePeriodUsed  
}  
STATUS current  
DESCRIPTION  
"A collection of objects that provide information specific to  
Right to use (RTU) licenses."  
::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP  
NOTIFICATIONS {  
clmgmtLicenseEvalRTUTransitionWarning,  
clmgmtLicenseEvalRTUTransition

```

    }
    STATUS      current
    DESCRIPTION
        "A collection of notifications related to Right to use (RTU)
        licenses."
    ::= { ciscoLicenseMgmtGroups 14 }

END

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF
/*
* Generated by ncsc --mib2yang-std
* Source: newjuniper/JUNIPER-LICENSE-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang JUNIPER-LICENSE-MIB
*
* Do not edit. Edit the source file instead!
*/

module JUNIPER-LICENSE-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:JUNIPER-LICENSE-MIB";
    prefix "juniper-license";

    import SNMPv2-TC {
        prefix "snmpv2-tc";
    }

    import ietf-yang-smiv2 {
        prefix "smiv2";
    }

    organization
        "Juniper Networks, Inc.";

    contact
        "Juniper Technical Assistance Center
        Juniper Networks, Inc.
        1133 Innovation Way
        Sunnyvale, CA 94089
        E-mail: support@juniper.net";

```



```

description
"Implementation of enterprise specific MIB
for license commands and configuration.";

revision 2019-06-17 {
description
"Deprecated jnxLicenseKeys.";
}

revision 2016-12-15 {
description
"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired";
}

revision 2010-07-09
{
description
"Initial version.";
}

container JUNIPER-LICENSE-MIB {
config false;

container jnxLicenseSettings {
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";

leaf jnxLicenseRenewBeforExpiration {
type int32;
description
"License renew lead time before expiration in days.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";
}

leaf jnxLicenseRenewInterval {
type int32;
description
"License checking interval in hours.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";
}

leaf jnxLicenseAutoUpdate {
type snmpv2-tc:DisplayString;
description
"License auto update URL of a license server.";
smiv2:max-access "read-only";

```

```

    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
  }
}

container jnxLicenseInstallTable {
  description
    "This table contains installed
feature license information.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

  list jnxLicenseInstallEntry {
    key "jnxLicenseId";
    smiv2:implied "jnxLicenseId";
    description
      "A row of giving installed feature license information.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

    leaf jnxLicenseId {
      type snmpv2-tc:DisplayString;
      description
        "Installed feature licenses Id.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
    }

    leaf jnxLicenseVersion {
      type int32;
      description
        "License Version information";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.2";
    }

    leaf jnxLicenseDeviceId {
      type snmpv2-tc:DisplayString;
      description
        "License Device Id ";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.3";
    }

    leaf jnxLicenseType {
      type enumeration {
        enum "invalid" {
          value "0";
        }
        enum "count-down" {
          value "1";
        }
      }
    }
  }
}

```

```

    }
    enum "date-based" {
        value "2";
    }
    enum "permanent" {
        value "3";
    }
}
description
    "License type information";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.4";
}

```

```

leaf jnxLicenseKeys {
    type binary;
    status deprecated;
    description
        "***** THIS OBJECT IS DEPRECATED *****"

        This object is deprecated,
        it displays all the license keys
        in the system.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.5";
}

```

```

leaf jnxLicenseKeyType {
    type enumeration
{
    enum "commercial" {
        value "1";
    }
    enum "trial" {
        value "2";
    }
    enum "demo" {
        value "3";
    }
    enum "emergency" {
        value "4";
    }
    enum "lab" {
        value "5";
    }
    enum "education" {
        value "6";
    }
}
}

```

```

    description
    "License key type";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.6";
  }
}
}

```

```

container jnxLicenseFeatureListTable {
  description
  "list of features supporting Licensing.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";

```

```

  list jnxLicenseFeatureListEntry {
    key "jnxLicenseFeatureId";
    description
    "A row of licensed features.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

```

```

    leaf jnxLicenseFeatureId {
      type int32;
      description
      "Feature Id to point an entry in this table";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
    }

```

```

    leaf jnxLicenseFeatureName {
      type snmpv2-tc:DisplayString;
      description
      "Feature Name";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
    }

```

```

    leaf jnxLicenseFeatureDescr {
      type snmpv2-tc:DisplayString;
      description
      "Feature Name";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
    }

```

```

    leaf jnxLicenseFeatureLicenseId {
      type snmpv2-tc:DisplayString;
      description
      "Feature License Id";
      smiv2:max-access "read-only";

```

```

        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
    }

    leaf jnxLicenseFeatureLicenseUsed {
        type int32;
        description

        "Licenses Used";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
    }

    leaf jnxLicenseFeatureLicenseInstalled {
        type int32;
        description
        "Licenses Installed";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
    }

    leaf jnxLicenseFeatureLicenseNeeded {
        type int32;
        description
        "Licenses Needed";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
    }
}
}
}

notification jnxLicenseGraceExpired {
    description
    "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is expired";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

    container object-1 {

        leaf jnxLicenseFeatureId {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
                license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
            }
        }

        leaf jnxLicenseFeatureName {
            type leafref {

```

```

    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
  }
}
}
}

```

```

notification jnxLicenseGraceAboutToExpire {
  description
    "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";

```

```

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

```

```

notification jnxLicenseAboutToExpire {
  description
    "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {

```

```

        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
    }
}
}
}

```

notification jnxLicenseInfringeCumulative

```

{
    description
        "The SNMP trap that is generated when the feature is used more
        times than as specified in number of licenses allowed for feature
        as identified by jnxLicenseFeatureName";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";

    container object-1 {

        leaf jnxLicenseFeatureId {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
            }
        }

        leaf jnxLicenseFeatureName {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
            }
        }
    }
}

```

notification jnxLicenseInfringeSingle {

```

    description
        "The SNMP trap that is generated when the license for feature
        identified by jnxLicenseFeatureName is not valid i.e. either
        expired or
        not available.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

```

container object-1 {

```

    leaf jnxLicenseFeatureId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
        }
    }

```

```

    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

notification jnxLicenseKeyExpired {
  description
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureLicenseId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
      }
    }
  }
}

```



```

    }
  }
}

container object-3
{

  leaf jnxLicenseId {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
    }
  }

  leaf jnxLicenseKeyType {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
    }
  }
}

smiv2:alias "jnxLicenseMIB" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
}

smiv2:alias "jnxLicenseNotifications" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
}

smiv2:alias "jnxLicenseObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
}

smiv2:alias "jnxLicenseInstallObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
}

smiv2:alias "jnxLicenseSettings" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
}

}
module openconfig-license {

  yang-version "1";

```

```

namespace "http://openconfig.net/yang/license";

prefix "oc-license";

import openconfig-extensions { prefix oc-ext; }

organization "OpenConfig working group";

contact
  "OpenConfig working group
  www.openconfig.net";

description
  "This module defines configuration and operational
  state data for licenses.";

oc-ext:openconfig-version "0.2.0";

revision "2020-04-22" {
  description
    "Make license-data a union of a string or binary.";
  reference "0.2.0";
}

revision "2020-01-07" {
  description
    "Initial revision";
  reference "0.1.0";
}

// OpenConfig specific extensions for module metadata.
oc-ext:regexp-posix;
oc-ext:catalog-organization "openconfig";
oc-ext:origin "openconfig";

grouping license-config {
  description
    "Configuration data for license";

  leaf license-id {
    type string;
    description
      "License ID. A string that uniquely identifies
the license. The
      platform should list all the licenses it supports being activated.";
  }
}

```

```

leaf license-data {
  type union {
    type binary;
    type string;
  }
  description
    "The contents of the licence (if required) - which may be
    supplied as a binary blob, or a simple string value. If this
    value is considered sensitive, it may be read as an empty value.";
}

leaf active {
  type boolean;
  default false;
  description
    "The activation state of the license.";
}

}

grouping license-state {
  description
    "State data for license";

  leaf description {
    type string;
    description
      "The license description.";
  }

  leaf issue-date {
    type uint64;
    description
      "The date and time at which the license was issued, expressed as the
      number of nanoseconds since the Unix Epoch
      (January 1, 1970, 00:00 UTC).";
  }

  leaf expiration-date
  {
    type uint64;
    description
      "The date and time at which the license will expire, expressed as the
      number of nanoseconds since the Unix Epoch
      (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
  }

  leaf in-use {

```

```

    type boolean;
    description
      "The license is in use. Different from active. This states that the
      license is effectively being used in addition to being active. If
      license for feature X was activated but feature X is not being used,
      then this should be false.";
  }

  leaf expired {
    type boolean;
    description
      "The license has expired.";
  }

  leaf valid {
    type boolean;
    description
      "The license is valid. Can be activated in the system or platform.";
  }
}

grouping licenses-top {
  description
    "Top-level grouping for licenses.";

  container licenses {
    description
      "Enclosing container for list of licenses";

    list license {
      key "license-id";
      description
        "List of licenses.";

      leaf license-id {
        type leafref {
          path "../config/license-id";
        }
        description
          "Reference to license id list key";
      }

      container config {
        description
          "Configuration data for license";

        uses license-config;
      }
    }
  }
}

```

```

    }

    container state {

        config false;

        description
            "Operational state data for license.";

        uses license-config;
        uses license-state;
    }
}

}

}

grouping license-top {
    description
        "Top-level for the license model";

    container license {
        description
            "Container for license model";

        uses licenses-top;

    }
}

}
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-IMAGE-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";
    prefix "cisco-image-license-mgmt-mib";

```

```
import ENTITY-MIB {  
    prefix "entity-mib";  
}
```

```
import SNMP-FRAMEWORK-MIB {  
    prefix "snmp-framework";  
}
```

```
import ietf-yang-smiv2 {  
    prefix "smiv2";  
}
```

```
organization  
"Cisco Systems Inc.";
```

```
contact  
"Cisco Systems  
Customer Service  
Postal: 170 W Tasman Drive  
San Jose, CA 95134  
USA  
Tel: +1 800 553 -NETS  
E-mail: cs-snmp@cisco.com";
```

```
description  
"The MIB module for managing the running image level  
of a Cisco device. Cisco's licensing mechanism provides  
flexibility to run a device on a chosen image  
level.
```

This mechanism is referred to as image level licensing.  
Image level licensing leverages the universal image  
based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems. The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.

- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely.";

```
revision 2007-10-16 {
  description
    "Initial version of this MIB module.";
}
```

```
typedef BootImageLevel {
  type binary {
```

```

    length "0..255";
}
description
    "This textual convention is used to define
    the image level.

    If the device is running at advipservices
    image level, then the boot image level will
    be 'advipservices.'";
}

typedef LicenseNameList
{
    type binary {
        length "0..255";
    }
    description
        "This textual convention is used to define
        the list of license names. If multiple licenses
        are present then this string will contain all
        the licenses seperated by the ',' character.

        If the license required to run a device at
        advipservices image level is advipservices and
        advsecurity, then the license name list will be
        'advipservices,advsecurity.'";
}

container CISCO-IMAGE-LICENSE-MGMT-MIB {
    config false;

    container ciscoImageLicenseMgmtMIBObjects {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1";

        leaf cilmEULAAccepted {
            type boolean;
            description
                "This object when set to TRUE means that the user has
                accepted the END USER LICENSE AGREEMENT. This object
                has to be set to TRUE by the user before using the
                objects in the cilmBootImageLevelTable to configure
                the license.";
            smiv2:defval
                "false";
            smiv2:max-access "read-write";
            smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
        }
    }
}

```



```
}
```

```
container cilmNotifCntl {  
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
```

```
    leaf cilmImageLevelChangedNotif {  
        type boolean;  
        description  
        "Specify whether or not a notification should be  
        generated on the detection of change in next boot  
        image level.
```

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered.";

```
    reference  
    "See also RFC3413 for explanation that notifications  
    are under the ultimate control of the MIB module in  
    this document.";  
    smiv2:defval "false";  
    smiv2:max-access "read-write";  
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";  
    }  
}
```

```
container cilmBootImageLevelTable {  
    description  
    "A table that contains the configuration information of  
    current and next boot image level. This table contains  
    entries for each software module running in an image  
    loaded in the device. The software module is identified by  
    cilmModuleName and the device is identified by  
    entPhysicalIndex.";  
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";
```

```
    list cilmBootImageLevelEntry {  
        key "entPhysicalIndex cilmModuleName";  
        description  
        "An entry in the table for each module containing the  
        list of objects that define the configuration of next  
        boot level. The following information is specified by  
        the objects present in the table.
```

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.

- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```
leaf cilmModuleName {
  type snmp-framework:SnmpAdminString;
  description
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules
    - a base image module and a wireless module.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}
```

```
leaf cilmCurrentImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the current image level that
    the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}
```

```
leaf cilmConfiguredBootImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the configured image level
    of the module for the next boot.
```

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability.";

```
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}
```

```

leaf cilmNextBootImageLevel {
  type
  cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the next boot image level. The
    next boot image level can be different from configured
    level. The next boot image level is determined based
    on the availability of required license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}

```

```

leaf cilmCurrentLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    currently used license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license store index can be '0' if no license is installed and device is running base image.";

```

  smiv2:max-access "read-only";

  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}

```

```

leaf cilmCurrentLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the currently used
    license. This object has the same value as clmgmtLicenseIndex and
    uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license index can be '0' if no license is installed and device is running base image.";

```

  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
}

```

```

leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    next boot license is stored. This object has the same

```

value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in

CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
}
```

```
leaf cilmNextBootLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the next boot
    license. This object has the same value as clmgmtLicenseIndex
    and uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.
```

Note: The license index can be '0' if no license is installed for the next boot.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
}
```

```
container cilmImageLevelToLicenseMapTable {
  description
    "This table contains the mapping between different
    image levels of each modules in the
    image and the
```

license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each.";

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";
```

```
list cilmImageLevelToLicenseMapEntry {
  key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
  description
```

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license.";

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";
```

```

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf cilmModuleName {
  type leafref {

    path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
  }
}

leaf cilmImageLicenseMapIndex {
  type uint32;
  description
    "This is a running index used to identify an entry
    of this table.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}

leaf cilmImageLicenseImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the image level at which
    a module can be run. A module can be run at
    different image levels. An entry will be created
    in this table for every module and image level
    combination.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

leaf cilmImageLicenseName {
  type cisco-image-license-mgmt-mib:LicenseNameList;
  description
    "This object indicates the list of licenses needed to
    be installed for the module to run at the image level
    mentioned by cilmImageLicenseImageLevel object of this
    entry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

```

```

leaf cilmlImageLicensePriority {
  type uint32 {
    range "1..255";
  }
  description
    "This object indicates the priority of the image level
    mentioned by cilmlImageLicenseImageLevel object of this
    entry. The image level with the highest priority license
    will be considered as the default level in the absense of
    next boot image level configuration. For example if there
    are three licenses l1, l2 and l3 in the ascending order of

    priority, then by default l1 will be the level at which the
    module will be running. If the next boot level is configured
    then the configuration will override the priority. The highest
    priority license supports a feature set which is a super set of
    all other licenses.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}
}
}
}

notification cilmlBootImageLevelChanged {
  description
    "This notification is triggered when next boot image level
    is changed in the management entity. The current and
    configured image level are indicated by cilmlCurrentImageLevel
    and cilmlConfiguredBootImageLevel objects respectively.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf cilmlModuleName {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmlBootImageLevelTable/cisco-image-license-mgmt-mib:cilmlBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmlModuleName";
      }
    }
  }
}

```

```

    }

    leaf cilmCurrentImageLevel {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf cilmModuleName {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
      }
    }

    leaf cilmConfiguredBootImageLevel {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
      }
    }
  }

  smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
  }

  smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
  }

  smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
  }

```

```

}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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#
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#   Name <email address>

```

```

Paul Borman <borman@google.com>
Andrew Fort <afort@arista.com>
Rob Shakir <robjs@google.com>

```

```

--
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--
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--

```

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

    MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
    NOTIFICATION-TYPE
    FROM SNMPv2-SMI

```



```

jnxLicenseMibRoot
    FROM JUNIPER-SMI
DisplayString
    FROM SNMPv2-TC;

jnxLicenseMIB    MODULE-IDENTITY
    LAST-UPDATED   "201007090000Z"
    ORGANIZATION   "Juniper Networks, Inc."
    CONTACT-INFO
        "Juniper Technical Assistance Center
        Juniper Networks, Inc.
        1194 N. Mathilda Avenue
        Sunnyvale, CA 94089
        E-mail: support@juniper.net"
    DESCRIPTION
        "Implementation of enterprise specific MIB
        for license commands and configuration."
    REVISION       "201007090000Z"   -- Jul 09, 2010
    DESCRIPTION
        "Initial version."
    ::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications    OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }
jnxLicenseObjects          OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects   OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }
jnxLicenseSettings         OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- *****
-- License table for installed licenses
-- *****

jnxLicenseInstallTable    OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION  "This table contains installed feature license information."
    ::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry    OBJECT-TYPE
    SYNTAX      JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION  "A row of giving installed
feature license information."
    INDEX       { IMPLIED jnxLicenseId }
    ::= { jnxLicenseInstallTable 1 }

```

```
JnxLicenseInstallEntry ::= SEQUENCE {
    jnxLicenseId      DisplayString,
    jnxLicenseVersion  INTEGER,
    jnxLicenseDeviceId DisplayString,
    jnxLicenseType     INTEGER,
    jnxLicenseKeys     OCTET STRING
}
```

```
jnxLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "Installed feature licenses Id."
    ::= { jnxLicenseInstallEntry 1 }
```

```
jnxLicenseVersion OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Version information"
    ::= { jnxLicenseInstallEntry 2 }
```

```
jnxLicenseDeviceId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Device Id "
    ::= { jnxLicenseInstallEntry
3 }
```

```
jnxLicenseType OBJECT-TYPE
    SYNTAX      INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License type information"
    ::= { jnxLicenseInstallEntry 4 }
```

```
jnxLicenseKeys OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Keys"
    ::= { jnxLicenseInstallEntry 5 }
```

-- Feature Listing Table

```
jnxLicenseFeatureListTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseFeatureListEntry
```

MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "list of features supporting Licensing."  
::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE  
SYNTAX JnxLicenseFeatureListEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "A row of licensed features."  
INDEX { jnxLicenseFeatureId  
}  
::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {  
jnxLicenseFeatureId INTEGER,  
jnxLicenseFeatureName DisplayString,  
jnxLicenseFeatureDescr DisplayString,  
jnxLicenseFeatureLicenseId DisplayString,  
jnxLicenseFeatureLicenseUsed INTEGER,  
jnxLicenseFeatureLicenseInstalled INTEGER,  
jnxLicenseFeatureLicenseNeeded INTEGER  
}

jnxLicenseFeatureId OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "Feature Id to point an entry in this table"  
::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Feature Name"  
::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE  
SYNTAX  
DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Feature Name"  
::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE  
SYNTAX DisplayString

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Feature License Id"  
::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Licenses Used"  
::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Licenses Installed"  
::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"Licenses Needed"  
::= { jnxLicenseFeatureListEntry 7 }

-- \*\*\*\*\*  
-- License configuration parameters  
-- \*\*\*\*\*

jnxLicenseRenewBeforExpiration OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"License renew lead time before expiration in days."  
::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"License checking interval in hours."  
::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License auto update URL of a license server."

::= { jnxLicenseSettings

3 }

-- \*\*\*\*\*

-- define branches for jnx license traps

-- \*\*\*\*\*

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for  
feature identified by jnxLicenseFeatureName is expired"

::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for  
feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license period for  
  
feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the feature is used more  
times than as specified in number of licenses allowed for feature  
as identified by jnxLicenseFeatureName"

::= { jnxLicenseNotifications 4 }

```
jnxLicenseInfringeSingle NOTIFICATION-TYPE
  OBJECTS { jnxLicenseFeatureName }
  STATUS current
  DESCRIPTION
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available."
  ::= { jnxLicenseNotifications 5 }
```

END

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# 1.274 robot-oam-grpc 0.0.0-20210923091523-4e2f9f7191f9

## 1.274.1 Available under license :

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

```
/* -----  
* Crosswork CDG Output format - protobuf definitions  
*  
* September 2019  
*  
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* -----  
*/
```

Found in path(s):

```
* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-  
4e2f9f7191f92f92679b0d6728f479cb6cfc776a/proto/commands/telemetry.proto
```

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

```
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```

Found in path(s):

```
* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-
```

# 1.275 x-crypto 0.0.0-20220314234659-1baeb1ce4c0b

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# 1.276 x-sync 0.0.0-20220722155255-886fb9371eb4



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## 1.277 urllib3 1.26.12

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## 1.278 webencodings 0.5.1

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## 1.279 packaging 21.3

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## 1.280 tenacity 8.0.1

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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:

<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 \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.284 futures 3.3.0

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## 1.286 pep517 0.8.2

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## 1.287 colorama 0.4.3

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# 1.289 html5lib 1.0.1

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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 |
| 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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=====

Distutils2 Contributors

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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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# 1.306 pep517 0.13.0

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## 1.307 python-setuptools 65.6.0

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# 1.308 alpine-baselayout 3.4.0-r0

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```
# Automatically generated by apkbuild-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 $cpanmakedepends"
subpackages="$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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95052.

```
# Automatically generated by apkbuidl-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"

_buildddir="${srcdir}/${_pkgreal}-${pkgver}"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test || return 1
}

package() {
    cd "$_buildddir"
    make DESTDIR="$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="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
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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"

_buildddir="${srcdir}/${_pkgname}-${pkgver}
prepare() {
    local i
    cd "$_buildddir"
    for i in $source; do
        case $i in
            *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
            esac
        done
    }

    build() {
        cd "$_buildddir"
        python setup.py build || return 1
    }

    package() {
        cd "$_buildddir"
        python setup.py install --prefix=/usr --root="$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-lgpl

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\_lgpl/2.3/libart\_lgpl-\$pkgver.tar.bz2"

"

\_builddir="\$srcdir"/libart\_lgpl-\$pkgver

```
prepare() {  
  cd "$_builddir"  
  update_config_sub || return 1  
}
```

```
build() {  
  cd "$_builddir"  
  ./configure \  
    --build=$CBUILD \  
    --host=$CHOST \  
    --prefix=/usr \  
    || return 1  
  make || return 1  
}
```

```
package() {  
  cd "$_builddir"  
  make DESTDIR="$pkgdir" install || return 1  
}
```

}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart\_lgpl-2.3.21.tar.bz2"

# 1.309 grpc 1.50.1

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## 1.311 modernc.org-mathutil 1.5.0

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`show c' for details.
```

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```
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```

```
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## 1.317 crewjam-saml 0.4.9

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## cw\_ztp\_license\_device.proto

<a name="cwztpsvc-ZtpLicenseDevice"></a>

### ZtpLicenseDevice

| Field              | Type     | Label     | Description |
|--------------------|----------|-----------|-------------|
| -----              | ----     | -----     | -----       |
| deviceSerialNumber | [string] | (#string) |             |

## Scalar Value Types

| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |  
 | ----- | ---- | --- | --- | ----- | -- | -- | --- | ---- |  
 | <a name="double" /> double | | double | double | float | float64 | double | float | Float |  
 | <a name="float" /> float | | float | float | float | float32 | float | float | Float |  
 | <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int | integer |  
 Bignum or Fixnum (as required) |  
 | <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |  
 | <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2<sup>28</sup>. | uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than 2<sup>56</sup>. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |  
 | <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |  
 | <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String | str/unicode | string | string | string | String (UTF-8) |  
 | <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte | ByteString | string | String (ASCII-8BIT) |  
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## cw\_ztp\_license\_device\_v2.proto

<a name="cwztpsvc-ZtpLicenseDeviceV2"></a>

### ZtpLicenseDeviceV2

| Field        | Type              | Label    | Description |
|--------------|-------------------|----------|-------------|
| uuid         | [string](#string) |          |             |
| serialNumber | [string](#string) | repeated |             |
| locationId   | [string](#string) |          |             |

## Scalar Value Types

| .proto Type | Notes                                                                                                                                         | C++    | Java   | Python   | Go      | C#      | PHP            | Ruby                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|---------|---------|----------------|--------------------------------|
| double      |                                                                                                                                               | double | double | double   | float   | float64 | double         | float                          |
| float       |                                                                                                                                               | float  | float  | float    | float32 | float   | float          | Float                          |
| int32       | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32  | int    | int      | int32   | int     | integer        | Bignum or Fixnum (as required) |
| int64       | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64  | long   | int/long | int64   | long    | integer/string | Bignum                         |
| uint32      | Uses variable-length encoding.                                                                                                                | uint32 | int    | int/long | uint32  | uint    | integer        | Bignum or Fixnum (as required) |
| uint64      | Uses variable-length encoding.                                                                                                                | uint64 | long   | int/long | uint64  | ulong   | integer/string | Bignum or Fixnum (as required) |
| sint32      | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.                          | int32  | int    | int      | int32   | int     | integer        | Bignum or Fixnum (as required) |
| sint64      | Uses variable-length encoding. Signed int value. These more efficiently encode                                                                |        |        |          |         |         |                |                                |

```

negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

```

```

package cwztpsvc

```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    math "math"
)

```

```

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

```

```

type ZtpLicenseDeviceV2 struct {
    Uuid          string  `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
    SerialNumber  []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
    LocationId    string  `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
    XXX_NoUnkeyedLiteral
    struct{} `json:"- "`
    XXX_unrecognized []byte  `json:"- "`
    XXX_sizecache    int32   `json:"- "`
}

```

```

func (m *ZtpLicenseDeviceV2) Reset()      { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }

```

```

func (*ZtpLicenseDeviceV2) ProtoMessage() {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
    return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
    xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

```

```

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
    // 219 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
    0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
    0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
    0x65,
    0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
    0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
    0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
    0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
    0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
    0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
    0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
    0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
    0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
    0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
    0x00, 0xff, 0xff, 0x66,
    0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {

```

```

Id          int32  `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
Status      string `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
LastUpdated int64  `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
XXX_NoUnkeyedLiteral
struct{} `json:"-`
XXX_unrecognized []byte `json:"-`
XXX_sizecache    int32  `json:"-`
}

```

```

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

```

```

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

```

```

func
(m *ZtpLicense) GetId() int32 {
    if m != nil {
        return m.Id
    }
    return 0
}

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

```

```

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {
        return m.LastUpdated
    }
    return 0
}

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
    proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
    0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48,
    0x58, 0x5f, 0xc2, 0xfe,
    0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
    0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
    0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
    0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
    0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
    0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
    0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
    0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
    0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}

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```



## cw\_ztp\_license.proto

<a name="cwztpsvc-ZtpLicense"></a>

### ZtpLicense

| Field       | Type              | Label | Description |
|-------------|-------------------|-------|-------------|
| id          | [int32](#int32)   |       |             |
| status      | [string](#string) |       |             |
| lastUpdated | [int64](#int64)   |       |             |

## Scalar Value Types

| .proto Type                | Notes                                                                                                                                         | C++    | Java   | Python   | Go     | C#      | PHP            | Ruby                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|--------|---------|----------------|--------------------------------|
| <a name="double" /> double | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | double | double | double   | float  | float64 | double         | float                          |
| <a name="float" /> float   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | float  | float  | float    | float  | float32 | float          | Float                          |
| <a name="int32" /> int32   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32  | int    | int      | int32  | int     | integer        | Bigint or Fixnum (as required) |
| <a name="int64" /> int64   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64  | long   | int/long | int64  | long    | integer/string | Bigint or Fixnum (as required) |
| <a name="uint32" /> uint32 | Uses variable-length encoding.                                                                                                                | uint32 | int    | int/long | uint32 | uint    | integer        | Bigint or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding.                                                                                                                | uint64 | long   | int/long | uint64 | ulong   | integer/string | Bigint or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.                          | int32  | int    | int      | int32  | int     | integer        | Bigint or Fixnum (as required) |

```

| <a name="sint64" /> sint64 | Uses variable-length encoding.
Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64
| long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII
text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {
    DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
    json:"deviceSerialNumber,omitempty"`
    XXX_NoUnkeyedLiteral struct{} `json:"-"`
    XXX_unrecognized []byte `json:"-"`
    XXX_sizecache int32 `json:"-"`
}

func (m *ZtpLicenseDevice)

```

```

Reset()      { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
    return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
    if m != nil {
        return m.DeviceSerialNumber
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
    // 201 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
    0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
    0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
    0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
    0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,

```

```
0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
0xbc, 0x6c, 0x42,
0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

# 1.319 robot-infra-utils 1.0.2- 0.20221209050430-08312f1d185d

## 1.319.1 Available under license :

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Version 2.1, February 1999

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package ssh
import (
    dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
    Development_mode bool `json:"development-mode,omitempty"`
}
```

```

func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
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```

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```
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```
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```

```
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/\* Skeleton implementation for Bison's Yacc-like parsers in C

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AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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## 1.339 x-net 0.7.0

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## 1.340 robot-robot-api 0.0.0-20230223115406-745b54cf2c1e

## 1.340.1 Available under license :

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## cw\_ztp\_license\_device.proto

[cwztpsvc-ZtpLicenseDevice](#)

### ZtpLicenseDevice

| Field              | Type     | Label     | Description |
|--------------------|----------|-----------|-------------|
| deviceSerialNumber | [string] | (#string) |             |

## Scalar Value Types

| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |
|-------------|-------|-----|------|--------|----|----|-----|------|
| -----       | ----- | --- | ---  | -----  | -- | -- | --- | ---- |

| <a name="double" /> double | | double | double | float | float64 | double | float | Float |  
 | <a name="float" /> float | | float | float | float | float32 | float | float | Float |  
 | <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |  
 | <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2<sup>28</sup>. | uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than 2<sup>56</sup>. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |  
 | <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |  
 | <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String | str/unicode | string | string | string | String (UTF-8) |  
 | <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte | ByteString | string | String (ASCII-8BIT) |  
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## cw\_ztp\_license\_device\_v2.proto

<a name="cwztpsvc-ZtpLicenseDeviceV2"></a>

### ZtpLicenseDeviceV2

| Field        | Type              | Label    | Description |
|--------------|-------------------|----------|-------------|
| uuid         | [string](#string) |          |             |
| serialNumber | [string](#string) | repeated |             |
| locationId   | [string](#string) |          |             |

## ## Scalar Value Types

| .proto               | Type    | Notes                                                                                                                                         | C++    | Java   | Python   | Go      | C#     | PHP            | Ruby                           |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|---------|--------|----------------|--------------------------------|
| <a name="double" />  | double  |                                                                                                                                               | double | double | float    | float64 | double | float          | Float                          |
| <a name="float" />   | float   |                                                                                                                                               | float  | float  | float    | float32 | float  | float          | Float                          |
| <a name="int32" />   | int32   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| <a name="int64" />   | int64   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| <a name="uint32" />  | uint32  | Uses variable-length encoding.                                                                                                                | uint32 | int    | int/long | uint32  | uint   | integer        | Bignum or Fixnum (as required) |
| <a name="uint64" />  | uint64  | Uses variable-length encoding.                                                                                                                | uint64 | long   | int/long | uint64  | ulong  | integer/string | Bignum or Fixnum (as required) |
| <a name="sint32" />  | sint32  | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.                          | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| <a name="sint64" />  | sint64  | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.                          | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| <a name="fixed32" /> | fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.                                                          | uint32 | int    | int      | uint32  | uint   | integer        | Bignum or Fixnum (as required) |

```

| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

```

```
package cwztpsvc
```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    math "math"
)

```

```
// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ = proto.Marshal
```

```
var _ = fmt.Errorf
```

```
var _ = math.Inf
```

```
// This is a compile-time assertion to ensure that this generated file
```

```
// is compatible with the proto package it is being compiled against.
```

```
// A compilation error at this line likely means your copy of the
```

```
// proto package needs to be updated.
```

```
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package
```

```

type ZtpLicenseDeviceV2 struct {
    Uuid          string `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
    SerialNumber  []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
    LocationId    string `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
    XXX_NoUnkeyedLiteral
    struct{} `json:"- "`
    XXX_unrecognized []byte `json:"- "`
    XXX_sizecache    int32 `json:"- "`
}

```

```
func (m *ZtpLicenseDeviceV2) Reset() { *m = ZtpLicenseDeviceV2{} }
```

```
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
```

```
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
```

```
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
```

```
    return fileDescriptor_187379be6b6c9b7c, []int{0}
```

```

}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
    xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

```

```

}

var fileDescriptor_187379be6b6c9b7c = []byte{
  // 219 bytes of a gzipped FileDescriptorProto
  0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
  0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
  0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
  0x65,
  0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
  0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
  0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
  0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
  0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
  0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
  0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
  0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
  0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
  0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
  0x00, 0xff, 0xff, 0x66,
  0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}

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  - [ZtpLicense](#cwztpsvc-ZtpLicense)

- [Scalar Value Types](#scalar-value-types)

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## cw_ztp_license.proto

<a name="cwztpsvc-ZtpLicense"></a>

### ZtpLicense

| Field | Type | Label | Description |
| ---- | --- | ---- | ----- |

```

```
| id | [int32](#int32) | | |
| status | [string](#string) | | |
| lastUpdated | [int64](#int64) | | |
```

## ## Scalar Value Types

```
| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |
| ----- | ---- | --- | ---- | ----- | -- | -- | --- | ---- |
| <a name="double" /> double | | double | double | float | float64 | double | float | Float |
| <a name="float" /> float | | float | float | float | float32 | float | float | Float |
| <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding
negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int |
integer | Bignum or Fixnum (as required) |
| <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field
is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding.
Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64
| long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII
```



```

text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

```

```

package cwztpsvc

```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

```

```

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

```

```

type ZtpLicense struct {
    Id          int32   `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status       string  `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    IsLabEnabled bool    `protobuf:"varint,3,opt,name=isLabEnabled,proto3" json:"isLabEnabled,omitempty"`
    LastUpdated  int64   `protobuf:"varint,4,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
    XXX_NoUnkeyedLiteral struct{} `json:"-"`
    XXX_unrecognized []byte  `json:"-"`
    XXX_sizecache   int32   `json:"-"`
}

```

```

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

```

```

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {

```

```

return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown()
{
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

```

```

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

```

```

func (m *ZtpLicense) GetId() int32 {
    if m != nil {
        return m.Id
    }
    return 0
}

```

```

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

```

```

func (m *ZtpLicense) GetIsLabEnabled() bool {
    if m != nil {
        return m.IsLabEnabled
    }
    return false
}

```

```

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {
        return m.LastUpdated
    }
    return 0
}

```

```

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

```

```

func init() {

```

```

proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
    // 241 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x54, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0x49, 0xab, 0xa5, 0x46, 0x11, 0x0c, 0x22, 0x8b, 0x88, 0x84, 0x9e, 0xf6, 0xe2, 0x06,
    0xe9, 0x3f, 0x58, 0xf1, 0x56, 0x68, 0x09, 0x8a,
    0xd0, 0x4b, 0xc9, 0x17, 0x69, 0x20, 0xcd, 0x84,
    0x66, 0x6a, 0x61, 0x7f, 0xbd, 0xb4, 0xdb, 0xa2, 0x1e, 0xe7, 0x9d, 0x79, 0x1f, 0x9e, 0xa1, 0xf7,
    0x66, 0xbf, 0xea, 0x30, 0xaf, 0x62, 0x30, 0x2e, 0x15, 0xd7, 0xe4, 0x2d, 0x20, 0xb0, 0xb1, 0xd9,
    0x77, 0x98, 0xcb, 0xb7, 0x79, 0x7c, 0xf2, 0x00, 0x3e, 0x3a, 0xa1, 0x72, 0x10, 0x2a, 0x25, 0x40,
    0x85, 0x01, 0x52, 0xe9, 0xef, 0x26, 0x1d, 0xa5, 0x4b, 0xcc, 0xb3, 0xbe, 0xcb, 0x6e, 0xe9, 0x20,
    0xd8, 0x8a, 0x70, 0x52, 0x5f, 0xca, 0x41, 0xb0, 0xec, 0x81, 0x8e, 0x0a, 0x2a, 0xdc, 0x95, 0x6a,
    0xc0, 0x49, 0x7d, 0x25, 0x4f, 0x13, 0x9b, 0xd0, 0x9b, 0x50, 0x66, 0x4a, 0xbf, 0x27, 0xa5, 0xa3,
    0xb3, 0xd5, 0x90, 0x93, 0x7a, 0x2c, 0xff, 0x65, 0x8c, 0xd3, 0xeb, 0xa8, 0x0a, 0x7e, 0x66, 0xab,
    0xd0, 0xd9, 0xea, 0x82, 0x93, 0x7a, 0x28, 0xff, 0x46, 0xed, 0x9a, 0x3e, 0x1b, 0xd8, 0x34, 0x26,
    0x14, 0x03, 0xcd, 0x16, 0x34, 0x60, 0x2f, 0xd5, 0x9c, 0xdd, 0xdb, 0xbb, 0xb7, 0xaf, 0x5f, 0xbb,
    0xc5, 0x61, 0xb7, 0x20, 0xcb, 0x57, 0x1f, 0x70, 0xbd, 0xd3, 0xd3, 0x53, 0xd1,
    0xc0, 0x46, 0xc8,
    0x79, 0x3b, 0xff, 0x10, 0x47, 0xc4, 0xcb, 0xe1, 0x4f, 0x0f, 0x51, 0x25, 0x2f, 0xce, 0x1c, 0x3d,
    0x3a, 0x72, 0xa7, 0x3f, 0x01, 0x00, 0x00, 0xff, 0xff, 0xf4, 0xb4, 0x37, 0x45, 0x2c, 0x01, 0x00,
    0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {

```

```

DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
XXX_NoUnkeyedLiteral struct{} `json:"-"`
XXX_unrecognized []byte `json:"-"`
XXX_sizecache int32 `json:"-"`
}

func (m *ZtpLicenseDevice)
Reset() { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
if m
!= nil {
return m.DeviceSerialNumber
}
return ""
}

func init() {
proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

```

```

var fileDescriptor_4637a3ce942b5232 = []byte{
  // 201 bytes of a gzipped FileDescriptorProto
  0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
  0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
  0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
  0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
  0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
  0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
  0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
  0xbc, 0x6c, 0x42,
  0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
  0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
  0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
  0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
  0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
  0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}

```

# 1.341 golang-genproto 0.0.0-20230221151758-ace64dc21148

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## 1.343 modernc.org-libc 1.22.3

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# 1.344 remyoudompheng-bigfft 0.0.0-20230129092748-24d4a6f8daec

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## 1.347 mattn-go-isatty 0.0.12

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

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package pq

```

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.

```

```

func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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import (
    dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
    Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
```

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## 1.354 protobuf 1.29.0

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## cw\_ztp\_license\_device.proto

<a name="cwztpsvc-ZtpLicenseDevice"></a>

### ZtpLicenseDevice

| Field              | Type     | Label     | Description |
|--------------------|----------|-----------|-------------|
| -----              | ----     | -----     | -----       |
| deviceSerialNumber | [string] | (#string) |             |

## Scalar Value Types

| .proto Type | Notes | C++  | Java | Python | Go | C# | PHP  | Ruby |
|-------------|-------|------|------|--------|----|----|------|------|
| -----       | ----- | ---- | ---- | -----  | -- | -- | ---- | ---- |



| <a name="double" /> double | | double | double | float | float64 | double | float | Float |  
 | <a name="float" /> float | | float | float | float | float32 | float | float | Float |  
 | <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |  
 | <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2<sup>28</sup>. | uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |  
 | <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than 2<sup>56</sup>. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |  
 | <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |  
 | <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |  
 | <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |  
 | <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String | str/unicode | string | string | string | String (UTF-8) |  
 | <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte | ByteString | string | String (ASCII-8BIT) |  
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## cw\_ztp\_license\_device\_v2.proto

<a name="cwztpsvc-ZtpLicenseDeviceV2"></a>

### ZtpLicenseDeviceV2

| Field        | Type              | Label    | Description |
|--------------|-------------------|----------|-------------|
| uuid         | [string](#string) |          |             |
| serialNumber | [string](#string) | repeated |             |
| locationId   | [string](#string) |          |             |

## ## Scalar Value Types

| .proto               | Type    | Notes                                                                                                                                         | C++    | Java   | Python   | Go      | C#     | PHP            | Ruby                           |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|---------|--------|----------------|--------------------------------|
| <a name="double" />  | double  |                                                                                                                                               | double | double | float    | float64 | double | float          | Float                          |
| <a name="float" />   | float   |                                                                                                                                               | float  | float  | float    | float32 | float  | float          | Float                          |
| <a name="int32" />   | int32   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead. | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| <a name="int64" />   | int64   | Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead. | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| <a name="uint32" />  | uint32  | Uses variable-length encoding.                                                                                                                | uint32 | int    | int/long | uint32  | uint   | integer        | Bignum or Fixnum (as required) |
| <a name="uint64" />  | uint64  | Uses variable-length encoding.                                                                                                                | uint64 | long   | int/long | uint64  | ulong  | integer/string | Bignum or Fixnum (as required) |
| <a name="sint32" />  | sint32  | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.                          | int32  | int    | int      | int32   | int    | integer        | Bignum or Fixnum (as required) |
| <a name="sint64" />  | sint64  | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.                          | int64  | long   | int/long | int64   | long   | integer/string | Bignum                         |
| <a name="fixed32" /> | fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.                                                          | uint32 | int    | int      | uint32  | uint   | integer        | Bignum or Fixnum (as required) |

```
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto
```

```
package cwztpsvc
```

```
import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    math "math"
)
```

```
// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ = proto.Marshal
```

```
var _ = fmt.Errorf
```

```
var _ = math.Inf
```

```
// This is a compile-time assertion to ensure that this generated file
```

```
// is compatible with the proto package it is being compiled against.
```

```
// A compilation error at this line likely means your copy of the
```

```
// proto package needs to be updated.
```

```
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package
```

```
type ZtpLicenseDeviceV2 struct {
```

```
    Uuid          string  `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
```

```
    SerialNumber   []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
```

```
    LocationId     string  `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
```

```
    XXX_NoUnkeyedLiteral
```

```
    struct{} `json:"-"`
```

```
    XXX_unrecognized []byte  `json:"-"`
```

```
    XXX_sizecache    int32   `json:"-"`
```

```
}
```

```
func (m *ZtpLicenseDeviceV2) Reset()      { *m = ZtpLicenseDeviceV2{} }
```

```
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
```

```
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
```

```
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
```

```
    return fileDescriptor_187379be6b6c9b7c, []int{0}
```

```

}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
    xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

```

```

}

var fileDescriptor_187379be6b6c9b7c = []byte{
  // 219 bytes of a gzipped FileDescriptorProto
  0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
  0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
  0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
  0x65,
  0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
  0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
  0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
  0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
  0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
  0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
  0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
  0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
  0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
  0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
  0x00, 0xff, 0xff, 0x66,
  0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
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```

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```

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```

## ## cw\_ztp\_license.proto

```

<a name="cwztpsvc-ZtpLicense"></a>

```

### ### ZtpLicense

| Field | Type | Label | Description |
|-------|------|-------|-------------|
| ----  | ---- | ----- | -----       |

```
| id | [int32](#int32) | | |
| status | [string](#string) | | |
| lastUpdated | [int64](#int64) | | |
```

## ## Scalar Value Types

```
| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |
| ----- | ---- | --- | ---- | ----- | -- | -- | --- | ---- |
| <a name="double" /> double | | double | double | float | float64 | double | float | Float |
| <a name="float" /> float | | float | float | float | float32 | float | float | Float |
| <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding
negative numbers if your field is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int |
integer | Bignum or Fixnum (as required) |
| <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field
is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding.
Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64
| long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass |
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII
```

```

text. | string | String | str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

```

```

package cwztpsvc

```

```

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

```

```

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

```

```

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

```

```

type ZtpLicense struct {
    Id          int32   `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status       string  `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    IsLabEnabled bool    `protobuf:"varint,3,opt,name=isLabEnabled,proto3" json:"isLabEnabled,omitempty"`
    LastUpdated  int64   `protobuf:"varint,4,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
    XXX_NoUnkeyedLiteral struct{} `json:"-"`
    XXX_unrecognized []byte  `json:"-"`
    XXX_sizecache   int32   `json:"-"`
}

```

```

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

```

```

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {

```

```

return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown()
{
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

```

```

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

```

```

func (m *ZtpLicense) GetId() int32 {
    if m != nil {
        return m.Id
    }
    return 0
}

```

```

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

```

```

func (m *ZtpLicense) GetIsLabEnabled() bool {
    if m != nil {
        return m.IsLabEnabled
    }
    return false
}

```

```

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {
        return m.LastUpdated
    }
    return 0
}

```

```

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

```

```

func init() {

```



```

proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
    // 241 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x54, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0x49, 0xab, 0xa5, 0x46, 0x11, 0x0c, 0x22, 0x8b, 0x88, 0x84, 0x9e, 0xf6, 0xe2, 0x06,
    0xe9, 0x3f, 0x58, 0xf1, 0x56, 0x68, 0x09, 0x8a,
    0xd0, 0x4b, 0xc9, 0x17, 0x69, 0x20, 0xcd, 0x84,
    0x66, 0x6a, 0x61, 0x7f, 0xbd, 0xb4, 0xdb, 0xa2, 0x1e, 0xe7, 0x9d, 0x79, 0x1f, 0x9e, 0xa1, 0xf7,
    0x66, 0xbf, 0xea, 0x30, 0xaf, 0x62, 0x30, 0x2e, 0x15, 0xd7, 0xe4, 0x2d, 0x20, 0xb0, 0xb1, 0xd9,
    0x77, 0x98, 0xcb, 0xb7, 0x79, 0x7c, 0xf2, 0x00, 0x3e, 0x3a, 0xa1, 0x72, 0x10, 0x2a, 0x25, 0x40,
    0x85, 0x01, 0x52, 0xe9, 0xef, 0x26, 0x1d, 0xa5, 0x4b, 0xcc, 0xb3, 0xbe, 0xcb, 0x6e, 0xe9, 0x20,
    0xd8, 0x8a, 0x70, 0x52, 0x5f, 0xca, 0x41, 0xb0, 0xec, 0x81, 0x8e, 0x0a, 0x2a, 0xdc, 0x95, 0x6a,
    0xc0, 0x49, 0x7d, 0x25, 0x4f, 0x13, 0x9b, 0xd0, 0x9b, 0x50, 0x66, 0x4a, 0xbf, 0x27, 0xa5, 0xa3,
    0xb3, 0xd5, 0x90, 0x93, 0x7a, 0x2c, 0xff, 0x65, 0x8c, 0xd3, 0xeb, 0xa8, 0x0a, 0x7e, 0x66, 0xab,
    0xd0, 0xd9, 0xea, 0x82, 0x93, 0x7a, 0x28, 0xff, 0x46, 0xed, 0x9a, 0x3e, 0x1b, 0xd8, 0x34, 0x26,
    0x14, 0x03, 0xcd, 0x16, 0x34, 0x60, 0x2f, 0xd5, 0x9c, 0xdd, 0xdb, 0xbb, 0xb7, 0xaf, 0x5f, 0xbb,
    0xc5, 0x61, 0xb7, 0x20, 0xcb, 0x57, 0x1f, 0x70, 0xbd, 0xd3, 0xd3, 0x53, 0xd1,
    0xc0, 0x46, 0xc8,
    0x79, 0x3b, 0xff, 0x10, 0x47, 0xc4, 0xcb, 0xe1, 0x4f, 0x0f, 0x51, 0x25, 0x2f, 0xce, 0x1c, 0x3d,
    0x3a, 0x72, 0xa7, 0x3f, 0x01, 0x00, 0x00, 0xff, 0xff, 0xf4, 0xb4, 0x37, 0x45, 0x2c, 0x01, 0x00,
    0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
    fmt "fmt"
    proto "github.com/golang/protobuf/proto"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {

```

```

DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
XXX_NoUnkeyedLiteral struct{} `json:"-"`
XXX_unrecognized []byte `json:"-"`
XXX_sizecache int32 `json:"-"`
}

func (m *ZtpLicenseDevice)
Reset() { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
if m
!= nil {
return m.DeviceSerialNumber
}
return ""
}

func init() {
proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

```

```

var fileDescriptor_4637a3ce942b5232 = []byte{
    // 201 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
    0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
    0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
    0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
    0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
    0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
    0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
    0xbc, 0x6c, 0x42,
    0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
    0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
    0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
    0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
    0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
    0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}

```

# 1.356 robot-infra-utils 1.0.2-0.20230314091015-38af2f7704cc

## 1.356.1 Available under license :

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Version 2.1, February 1999

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```

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import (
    dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
    Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
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Both were inspired by Twisted

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but both are implemented using class decorators because [subclassing is bad for you](https://www.youtube.com/watch?v=3MNVP9-hglc), mkay?

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

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//go:build go1.10
// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

```



```

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function

```

```
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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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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## 1.367 go-uber-org-multierr 1.6.0

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## 1.370 cryptography 37.0.4

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## 1.372 python-certifi 2021.10.8

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<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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# 1.373 atomic 1.7.0

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## 1.400 coreutils 8.30-3ubuntu2

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```
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```

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# 1.401 expat 2.2.9-1ubuntu0.6

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## 1.402 libc-utils 0.7.2-r3

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## 1.403 inotify 0.2.10

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## 1.404 alpine-baselayout-data 3.4.0-r0

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```
# Automatically generated by apkbuild-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 $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/_pkgreal-$pkgver.tar.gz"

_buildddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test
}

package() {
    cd "$_buildddir"
    make
    DESTDIR="$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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# Automatically generated by apkbuidl-cpan, template 1

# Contributor: Valery Kartel <valery.kartel@gmail.com>

# Maintainer: Valery Kartel <valery.kartel@gmail.com>

pkgname=perl-bdd-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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/\*

\* Create mount directories in fstab

\*

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\*

\* usage: mkmntdirs [fstab]

\*

\*/

# 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"

_buildddir="${srcdir}/${_pkgname}-${pkgver}
prepare() {
    local i
    cd "$_buildddir"
    for i in $source; do
        case $i in
            *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
        esac
    done
}

build() {
    cd "$_buildddir"
    python setup.py build || return 1
}

package() {
    cd "$_buildddir"
    python setup.py install --prefix=/usr --root="$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-lgpl

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\_lgpl/2.3/libart\_lgpl-\$pkgver.tar.bz2"

"

\_builddir="\$srcdir"/libart\_lgpl-\$pkgver

prepare() {

cd "\$\_builddir"

update\_config\_sub || return 1

}

```

build() {
  cd "$_builddir"
  ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr \
    || return 1
  make || return 1
}

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

```

# 1.405 audit 2.8.5-2ubuntu6

## 1.405.1 Available under license :

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## 1.407 libidn 2.2.0-2

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```
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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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```

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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## 1.413 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).  
\*/

# 1.414 python-pkg-resources 45.2.0-1ubuntu0.1

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Julian Seward, [jseward@acm.org](mailto:jseward@acm.org)  
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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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

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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                 |

|               |       |          |     |     |
|---------------|-------|----------|-----|-----|
| 2.1.2         | 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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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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|----------------|-----------|-----------|------------|---------|
| 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     |
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Source: <https://www.sqlite.org/cgi/src/dir?ci=trunk>

Files: \*

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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 (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.

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| 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 |           |      |            |         |
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| 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                 |
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`validate-pyproject`

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# 1.427 retrying 1.3.3

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## 1.428 libc6-compat 1.2.3-r4

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Version 3, 29 June 2007

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## 1.430 python-pip 22.3.1

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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 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 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 |
| 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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### 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          |           |            |                     |

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man/sha1.3

man/sha2.3

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src/helper.c

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## 1.434 hostname 3.23

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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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| 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  |            |                     |
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@end macro

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

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\*/

/\* checkTag : validation tool for libzstd

\* command :

\* \$ ./checkTag tag

\* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}

\* The tag is then compared to zstd version number.

\* They are compatible if first 3 digits are identical.

\* Anything beyond that is free, and doesn't impact validation.

\* Example : tag v1.8.1.2 is compatible with version 1.8.1

\* When tag and version are not compatible, program exits with error code 1.

\* When they are compatible, it exists with a code 0.

\* checkTag is intended to be used in automated testing environment.

\*/

## 1.439 procps 3.3.17-r2

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any

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

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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Ty Coon, President of Vice

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# 1.440 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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```
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
/*
```



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\*/

/\* CMU libasl

\* Tim Martin

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\*/

/\*

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## 1.441 libintl 0.21.1-r1

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user can modify the Library and then relink to produce a modified  
executable containing the modified Library. (It is understood  
that the user who changes the contents of definitions files in the  
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@item

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library already present on the user's computer system, rather than  
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and (2) will operate  
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@smallexample

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@page  
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```
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and a brief idea of what it does.}
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```
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```

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Ty Coon, President of Vice

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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

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

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

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

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

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

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

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The

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=====

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(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.452 findutils 4.7.0-1ubuntu1

## 1.452.1 Available under license :

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Version 3, 29 June 2007

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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

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|----------------|--------------|-----------|------------|---------------------|
| 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                 |
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# 1.454 jinja2 3.1.2

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Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

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```
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## version 0.1  
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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.

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|---------|--------------|------|-------|---------------------|
| 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                 |
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| 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   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
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|----------------|--------------|-----------|------------|---------------------|
| 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 |
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| 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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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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This package was put together by Matthias Klose <[doko@debian.org](mailto:doko@debian.org)>.

Upstream source:  
<ftp.gnu.org/pub/gnu/readline/readline-4.3.tar.gz>.

Author: Per Bothner

Copyright:

```

/* A front-end using readline to "cook" input lines for Kawa.
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*
* Some code from Johnson & Troan: "Linux Application Development"
* (Addison-Wesley, 1998) was used directly or for inspiration.
*/

```

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.465 mpdecimal 2.5.1-r1

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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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Otherwise, if the work

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# 1.470 gnutls 3.6.13-2ubuntu1.6

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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

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

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Convey individual copies of the object code with a copy of the written offer

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@item

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Convey the object

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DRuntime: Runtime Library for the D Programming Language

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in

the same way through the same place at no

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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as a System Library, need not be  
included in conveying the object code work.

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Version 2, June 1991

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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.]

#### Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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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performs whatever part of its purpose remains meaningful.

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

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

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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.

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

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

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

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

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

6. Any

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

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

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a.

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

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

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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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```
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<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)  
<svn://gcc.gnu.org/svn/gcc/> (for prereleases)  
<ftp://sourceware.org/pub/newlib/> (for newlib)  
<git://git.savannah.gnu.org/gm2.git> (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See [changelog.Debian.gz](#)

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|----------|------------------|-----------------|---------------|
|----------|------------------|-----------------|---------------|

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|               |            |              |                  |
|---------------|------------|--------------|------------------|
| Ada           | gnat-9     | libgnat-9    | gnat-9-doc       |
| BRIG          | gccbrig-9  | libhsail-rt0 |                  |
| C             | gcc-9      | gcc-9-doc    |                  |
| C++           | g++-9      | libstdc++6   | libstdc++6-9-doc |
| D             | gdc-9      |              |                  |
| Fortran 95    | gfortran-9 | libgfortran3 | gfortran-9-doc   |
| Go            | gccgo-9    | libgo0       |                  |
| Objective C   | gobjc-9    | libobjc2     |                  |
| Objective C++ | gobjc++-9  |              |                  |
| Modula-2      | gm2-9      | libgm2       |                  |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources         | Development      | Debugging        | Position-Independent |
|----------|-----------------|------------------|------------------|----------------------|
| <hr/>    |                 |                  |                  |                      |
| C++      |                 | libstdc++6-9-dev | libstdc++6-9-dbg | libstdc++6-9-pic     |
| D        | libphobos-9-dev |                  |                  |                      |

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

    GCC intrinsics (platform-dependent)

|                  |                                    |
|------------------|------------------------------------|
| gcc-9-base       | Base files common to all compilers |
| gcc-9-soft-float | Software floating point (ARM only) |
| gcc-9-source     | The sources with patches           |

Ada:

libgnatvsn-dev, libgnatvsn9 GNAT version library

C:

|                      |                                       |
|----------------------|---------------------------------------|
| cpp-9, cpp-9-doc     | GNU C Preprocessor                    |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0         | Math routines for the __float128 type |
| fixincludes          | Fix non-ANSI header files             |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library

libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp



- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
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Written by Tobias Burnus <burnus@net-b.de>

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ldexpq.c:

- \* Conversion to long double by Ulrich Drepper,
- \* Cygnus Support, drepper@cygnus.com.

cosq\_kernel.c, expq.c, sincos\_table.c, sincosq.c, sincosq\_kernel.c, sinq\_kernel.c, truncq.c:

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|                 |                            |
|-----------------|----------------------------|
| gdc-9           | GNU D Compiler             |
| libphobos-9-dev | D standard runtime library |

The D source package is made up of the following components.

The D front-end for GCC:

- d/\*

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The DMD Compiler implementation of the D programming language:

- d/dmd/\*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/\*

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The Phobos standard runtime library:

- d/phobos/\*

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./gm2-libs/MathLib0.mod:  
./gm2-libs/gdbif.mod:  
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include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
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src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/pwcache.c  
src/radixsort.c  
src/setmode.c  
src/strmode.c  
src/strnstr.c  
src/strtoi.c  
src/strtou.c  
src/unvis.c  
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include/bsd/stringlist.h  
man/fmtcheck.3bsd  
man/humanize\_number.3bsd  
man/stringlist.3bsd  
man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
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man/byteorder.3bsd  
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man/expand\_number.3bsd  
man/flopen.3bsd  
man/getpeereid.3bsd  
man/pidfile.3bsd  
src/expand\_number.c  
src/pidfile.c  
src/reallocf.c  
src/timeconv.c

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man/fparseln.3bsd

man/tree.3bsd

src/fparseln.c

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man/readpassphrase.3bsd

man/strlcpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/freezero.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c

src/getentropy\_hurd.c

src/getentropy\_linux.c

src/getentropy\_osx.c  
src/getentropy\_solaris.c  
src/getentropy\_win.c  
src/readpassphrase.c  
src/reallocarray.c  
src/reallocarray.c  
src/strlcat.c  
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## 1.478 brotli 1.0.9-r9

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- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
- \* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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```
('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),
```

```
Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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executable.

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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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```
/*
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```
*****/
```

```
Found in path(s):
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
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```

```
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```

```
# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.
```

```
Matcher: Alternatives ENDMARKER
```

```
Alternatives: Alternative ('|' Alternative)*
```

```
Alternative: (Unit | NegatedUnit)+
```

```
Unit: [NAME '=' ] ( STRING [Repeater]
    | NAME [Details] [Repeater]
    | '(' Alternatives ')' [Repeater]
    | '[' Alternatives ']'
    )
```

```
NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')
```

```
Repeater: '*' | '+' | '{' NUMBER '[' NUMBER ']' }
```

```
Details: '<' Alternatives '>'
```

```
Found in path(s):
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
No license file was found, but licenses were detected in source scan.
```

```
# Copyright 2004-2005 Elemental Security, Inc. All Rights Reserved.
# Copyright 2006 Google, Inc. All Rights Reserved.
```

```
Found in path(s):
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py
```

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

# Copyright 2006 Google, Inc. All Rights Reserved.

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
```



```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.
```

```
file.write('License: %s\n' % self.get_license())
```

```
Found in path(s):
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
No license file was found, but licenses were detected in source scan.
```

```
# version.
```

```
Found in path(s):
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
No license file was found, but licenses were detected in source scan.
```

```
# Copyright 2007 Google, Inc. All Rights Reserved.
```

```
Found in path(s):
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
```

```

* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
No license file was found, but licenses were detected in source scan.

```

# All rights reserved.

Found in path(s):

```

* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

```

# 1.481 libseccomp 2.5.1-1ubuntu1~20.04.2

## 1.481.1 Available under license :

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Version 2.1, February 1999

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 the version number 2.1.]

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

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

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

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

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

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

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

# 1.486 libsemanage-common 3.0-1build2

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table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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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.

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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.

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

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

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

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

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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Upstream-Contact: Anibal Monsalve Salazar <[anibal@debian.org](mailto:anibal@debian.org)>

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Version 3, 29 June 2007

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## 1.494 e2fsprogs 1.45.5-2ubuntu1

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o  
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

### PCRE LICENCE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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### THE BASIC LIBRARY FUNCTIONS

-----

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

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Written by: Philip Hazel  
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# 1.503 tdb 1.45.5

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```
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## 1.509 base-files 11ubuntu5.7

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The End

## 1.510 py3-pip 22.3.1-r1

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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#

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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 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 |
| 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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#### 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 | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

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

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```
Gnomovision version 69, Copyright (C) year name of author
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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

On Debian GNU/Linux systems, the complete text of the GNU General  
Public License can be found in `/usr/share/common-licenses/GPL-2'.

Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

# 1.512 zlib 1.2.11.dfsg-2ubuntu1.5

## 1.512.1 Available under license :

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

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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Not copyrighted -- provided to the public domain

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* unzip.c -- IO for uncompress .zip files using zlib  
Version 1.1, February 14h, 2010  
part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)  
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/\* inffback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infbck.c

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/\* gzlog.h

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version 2.2, 14 Aug 2012

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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/\* inflate.h -- internal inflate state definition

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h



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/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----

Changes

See header of zip.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

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/\*

\* gzlog.c

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\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. 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).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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

/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

```
/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h
```

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

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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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).

```
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
```

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

```
# For conditions of distribution and use, see copyright notice in zlib.h
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
```

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

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

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

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

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

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

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

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

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c

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

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
```

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

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
```

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

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
```

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

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
```

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

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```



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

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

## Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c  
some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

## Zip File specification

### Notes.

\* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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### Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

### Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

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

/\* adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference

("as any"), not by value ("as long").

### 5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero.

When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h` . Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/` .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org` . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt the code of `uncompress` on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
```

```
./configure  
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:  
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers



and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` `#defines` in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled `zlib` library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will `zlib` work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will `zlib` work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will `zlib` decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and `zlib`. However, you can look in `zlib's contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does `zlib` work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of `zlib 1.1.4` to MVS, but those links no longer work. If you know of recent, successful applications of `zlib` on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of `inflate` I can look at to

understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is

32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,

use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

# 1.513 glibc 2.31-0ubuntu9.9

## 1.513.1 Available under license :

/\* Test program for the gcc interface.

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```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
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#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0 1993/08/18 12:04:35 ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order. It will complain and die if not. NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.
```

## 1.515 ca-certificates 20220614-r4

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```
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```

Found in path(s):

```
* /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
```

```
*
```

```
* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
```

```
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```

```
*
```

```
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```
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```

```
*/
```

Found in path(s):

```
* /ca-certificates-20220614-tar-bz2/ca-certificates-20220614/c_rehash.c
```

# 1.516 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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\* \$Id\$

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@item

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and (2) will operate  
properly with a modified version of the library, if the user installs

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@subheading END OF TERMS AND CONDITIONS

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```
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```

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```
@end
smallexample
```

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```
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```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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@end iftex  
@ifinfo  
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@page

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and a brief idea of what it does.}

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@end smallexample

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@smallexample

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@end smallexample

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@example

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

Ty Coon, President of Vice

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Version 2.1, February 1999

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^L

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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

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

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

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined

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Version 3, 29 June 2007

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The

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

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END OF TERMS AND CONDITIONS

## 1.522 zlib 1.2.11.dfsg-2ubuntu1.5

### 1.522.1 Available under license :

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

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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Not copyrighted -- provided to the public domain

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos



2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*

2007-2008 - Even Rouault - Remove old C style function prototypes

2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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

/\* inflate.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/\* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Mark Adler

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

\*/

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

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----

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Changes

See header of zip.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c  
No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

Found in path(s):  
\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c  
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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is  
thread safe. 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).

All functions of the compression library are documented in the file zlib.h  
(volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example  
of the library is given in the file test/example.c which also tests that  
the library is working correctly. Another example is given in the file  
test/minigzip.c. The compression library itself is composed of all source  
files in the root directory.

To compile all files and run the test program, follow the instructions given at

the top of Makefile.in. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32` compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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|                  |                           |
|------------------|---------------------------|
| Jean-loup Gailly | Mark Adler                |
| jloup@gzip.org   | madler@alumni.caltech.edu |

If you use the zlib library in a product, we would appreciate \*not\* receiving

lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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/\* gzread.c -- zlib functions for reading gzip files

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

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

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

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

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

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/\* deflate.h -- internal compression state

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\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

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/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

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

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

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/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

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

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

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

/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

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/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

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/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

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

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

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

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

## Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
- \* Added ZIP64 support for zip ( by Mathias Svensson )
- \* Reverted some changes that Even Rouault did.
- \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- \* Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- \* Added BZIP Compression method for zip
- \* Did some refactoring and code cleanup

#### Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZIP Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZIP Compression method support in zip

#### Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

#### Notes.

- \* To be able to use BZIP compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 needs to be defined.

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-----  
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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

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

/\* adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.



## 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

## 3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://marknelson.us/1997/01/01/zlib-engine/>
- \* win32/DLL\_FAQ.txt in the zlib distribution

## 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

## 5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

## 6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h. Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/.

## 7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

## 8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org). Do not send multi-megabyte

data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz\* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's \*Init\* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks

of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

### 33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

### 34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

### 35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

## 1.523 bash 5.0-6ubuntu1.1

### 1.523.1 Available under license :

GNU Free Documentation License  
Version 1.3, 3 November 2008

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<<http://fsf.org/>>



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## 1.525 ncurses 6.2-0ubuntu2

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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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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.

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## 1.528 bridgeutils 1.7-r0

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## 1.530 kerberos 1.17-6ubuntu4.3

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cmd/krb5/iprop/iprop\_hdr.h  
cmd/krb5/kadmin/server/ipropd\_svc.c  
cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
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lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
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lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
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lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
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- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c

lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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kprop/kpropd\_rpc.c  
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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
```

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

```
./"/* Copyright 1988,1990,1993,1994 by Paul Vixie
./" * All rights reserved
./" *
./" * Distribute freely, except: don't remove my name from the source or
./" * documentation (don't take credit for my work), mark your changes (don't
```

```

.\" * get me blamed for your possible bugs), don't alter or remove this
.\" * notice. May be sold if buildable source is provided to buyer. No
.\" * warrantee of any kind, express or implied, is included with this
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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

```

Found in path(s):

```

*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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```

```

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.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

```

Found in path(s):

```

*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
No license file was found, but licenses were detected in source scan.

```

```

/*
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```

```

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*/

```

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```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/popen.c
```

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* Paul Vixie    <paul@vix.com>      uunet!decwrl!vixie!paul
*/

```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked  
'configurable  
stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the  
top of the file, but it's clearly marked. Also look at pathnames.h.



You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:  
make all

su and say:  
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r'

option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL

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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

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.\"

.\" @(#)bitstring.3 5.1

(Berkeley) 12/13/89

.\"

Found in path(s):

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```
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*
* @(#)bitstring.h 5.2
* (Berkeley) 4/4/90
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
No license file was found, but licenses were detected in source scan.
```

```
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*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
No license file was found, but licenses were detected in source scan.
```

```
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.\/* anyone resulting from the use of this software rests entirely with the
.\/* user.
.\/*
.\/* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\/* I'll try to keep a version up to date. I can be reached as follows:
```

```
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

\*

/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1

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# \* All rights reserved

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Found in path(s):

\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile

# 1.533 xz 5.2.4-1ubuntu1

## 1.533.1 Available under license :

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Version 2, June 1991

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```
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```

```
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## 1.538 py3-setuptools 65.6.0-r0

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## 1.540 libssh 0.9.3-2ubuntu2.2

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

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

Any executables

containing that work also fall under Section 6,  
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## 1.541 py3-parsing 3.0.9-r0

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## 1.546 mime-support 3.64ubuntu1

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Files: mailcap.man

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# 1.547 libcrypt 4.4.10-10ubuntu4

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Version 2.1, February 1999

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## 1.549 pcre 10.42-r0

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THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: Philip.Hazel  
Email domain: gmail.com

Retired from University of Cambridge Computing Service,

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Written by: Zoltan Herczeg  
Email local part: hzmester  
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*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
*
```

```
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
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 \*  
 \* @(#)bitstring.h 5.2  
 \* (Berkeley) 4/4/90  
 \*/

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\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"

```

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```
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```

```
.\" */
```

```
.\"
```

```
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
```

```
.\"
```

Found in path(s):

\*

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\*/

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked  
'configurable  
stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the  
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since  
both the daemon and the `crontab' program will do this the first time they  
run if they don't exist. You do need to have a /var, though -- just "mkdir  
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"  
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you  
change the Makefile. These will have to be created by hand, but if you are  
a long-time Usenet user you probably have them already. /usr/local/man is  
where I keep my man pages, but I have the source for `man' and you probably  
do not. Therefore you may have to put the man pages into /usr/man/man1,  
which will be hard since there will be name collisions. (Note that the man  
command was originally written by

Bill Joy before he left Berkeley, and it  
contains no AT&T code, so it is in UUNET's archive of freely-distributable  
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:  
make all

su and say:  
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src  
crontab -u news -r /usr/lib/news/crontab.src  
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in

any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL

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

```
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./" * All rights reserved
./" *
./" * Distribute freely, except: don't remove my name from the source or
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./" * get me blamed for your possible bugs), don't alter or remove this
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./" * anyone resulting from the use of this software rests entirely with the
./" * user.
./" *
./" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
./" * I'll try to keep a version up to date. I can be reached as follows:
./" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
./" */
./"
./" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
./"
```

Found in path(s):

\*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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

```
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# * user.
# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0  
December 27, 1993  
[V2.2 was some time in 1992]  
[V2.1 was May 29, 1991]  
[V2.0 was July 5, 1990]  
[V2.0-beta  
was December 9, 1988]  
[V1.0 was May 6, 1987]  
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files  
Edit config.h  
Edit Makefile  
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)  
'make'  
'su' and 'make install'  
(you may have to install the man pages by hand)  
kill your existing cron process  
(actually you can run your existing cron if you want, but why?)  
build new crontabs using /usr/lib/{crontab,crontab.local}  
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into



ranges with steps -- basically, this step is  
as much work as you want to make it)  
start up the new cron  
(must be done as root)  
watch it. test it with 'crontab -r' and watch the daemon track your  
changes.  
if you like it, change your /etc/{rc,rc.local} to use it instead of  
the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /cron-3.0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

# 1.551 util-linux 2.34-0.1ubuntu9.3

## 1.551.1 Available under license :

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Version 2.1, February 1999

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That's all there is to it!

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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library. If this is what you want to do, use the GNU Library General  
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Version 2.1, February 1999

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



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

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

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

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

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"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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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.

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

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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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You should also get your employer (if you work as a programmer) or your

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

That's all there is to it!

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# 1.555 ubuntu-keyring 2020.02.11.4

## 1.555.1 Available under license :

This is Ubuntu GNU's GnuPG keyrings of archive keys.

This package was originally put together by Michael Vogt  
<michael.vogt@canonical.com>

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# 1.556 gdbm 1.23-r0

## 1.556.1 Available under license :

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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## 1.557 nghttp2 1.51.0-r0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 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  |
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| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
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Mersenne Twister

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The `\_random' module includes code based on a download from  
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following are the verbatim comments from the original code:

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

Before using, initialize the state by using `init_genrand(seed)`  
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-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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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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Version 3, 29 June 2007

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#+TITLE: List of code with permissive licenses as used by GnuPG.

#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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# 1.571 rtmpdump 2.4+20151223.gitfa8646d.1-2build1

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```
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Ty Coon, President of Vice
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## 1.573 diffutils 3.7-3

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Version 3, 29 June 2007

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## 1.581 libidn 2.3.4-r0

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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.585 xz 5.2.4-1ubuntu1.1

### 1.585.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.

[...]

.

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changelog.gz (commit 975d8fd) explains:

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

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configure.ac:

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dos/config.h was generated with autoheader, which tells Autoconf to  
output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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## 1.587 base-files 11ubuntu5.5

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```
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```
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```

```
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```
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```

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

- \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
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- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
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- \* btoconnor <brian@btoconnor.net>
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  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
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- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
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- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations

- \* Josh Schneier <<https://github.com/jschneier>>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<https://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
- \* App Engine environment tests.
- \* Documentation re-write.



- \* John Krauss <<https://github.com/talos>>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <<https://github.com/Disassem>>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <[jlatherfold@hotmail.com](mailto:jlatherfold@hotmail.com)>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <<https://github.com/chripede>>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@googlemail.com](mailto:andy.m.caldwell@googlemail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.

- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018

- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
  
  - \* Will Bond <will@wbond.net>
  - \* Add Python 2.6 support to ``contrib.securetransport``
  
  - \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  - \* using auth info for socks proxy
  
  - \* Chris Wilcox <git@crwilcox.com>
  - \* Improve contribution guide
  - \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
  - \* Bruce Merry <https://www.brucemerry.org.za>
  - \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
  - \* Hugo van Kemenade <https://github.com/hugovk>
  - \* Drop support for EOL Python 2.6
  
  - \* Tim Bell <https://github.com/timb07>
  - \* Bugfix for responses with Content-Type: message/\* logging warnings
  
  - \* Justin Bramley <https://github.com/jbramleycl>
  - \* Add ability to handle multiple Content-Encodings
  
  - \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  - \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
  - \* James Meickle <https://permadeath.com/>
  - \* Improve handling of Retry-After header
  
  - \* Chris Jerdonek <chris.jerdonek@gmail.com>
  - \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
  - \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]
- MIT

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# 1.591 e2fsprogs 1.45.5-2ubuntu1.1

## 1.591.1 Available under license :

This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <[tytso@mit.edu](mailto:tytso@mit.edu)> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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file system consistency checker (e2fsck.static). The EXT2 utilities  
were written by Theodore Ts'o <[tytso@mit.edu](mailto:tytso@mit.edu)> and Remy Card

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

```
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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support/man2html.c

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

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include/bsd/md5.h

src/hash/md5.c

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## 1.606 python-pip 20.0.2-5ubuntu1.6

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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.

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| Release | Derived<br>from | Year | Owner | GPL-<br>compatible? (1) |
|---------|-----------------|------|-------|-------------------------|
| 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   | 3.1.1           | 2010 | PSF   | yes                     |
| 3.1.3   | 3.1.2           | 2010 | PSF   | yes                     |
| 3.1.4   | 3.1.3           | 2011 | PSF   | yes                     |
| 3.2     | 3.1             | 2011 | PSF   | yes                     |
| 3.2.1   | 3.2             | 2011 | PSF   | yes                     |
| 3.2.2   | 3.2.1           | 2011 | PSF   | yes                     |
| 3.3     | 3.2             |      |       |                         |
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Python was created in the early 1990s by Guido van Rossum at Stichting  
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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  
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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  
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| 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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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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```

```

# Automatically generated by apkgbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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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"

```

```

_buildddir="$srcdir/_pkgreal-$pkgver"

```

```

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

```

```

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test || return 1
}

```

```

package() {
    cd "$_buildddir"
    make DESTDIR="$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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# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>

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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-lgpl

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\_lgpl/2.3/libart\_lgpl-\$pkgver.tar.bz2"

"

\_builddir="\$srcdir"/libart\_lgpl-\$pkgver

prepare() {

cd "\$\_builddir"

update\_config\_sub || return 1

}

build() {

cd "\$\_builddir"

./configure \

--build=\$CBUILD \

--host=\$CHOST \

--prefix=/usr \

|| return 1

make || return 1

}

package() {

cd "\$\_builddir"

make DESTDIR="\$pkgdir" install || return 1

}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart\_lgpl-2.3.21.tar.bz2"

# 1.608 libffi 3.3-4

## 1.608.1 Available under license :

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## 1.609 pq 1.10.4

### 1.609.1 Available under license :

```
//go:build go1.10
// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
```

```

c, err := n.Connector.Connect(ctx)
if err == nil {
    SetNoticeHandler(c, n.noticeHandler)
}
return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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