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

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

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

If the program is interactive, make it output a short notice like this
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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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school, if any, to sign a "copyright disclaimer" for the program, if
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.4 log-rotate 3.14.0-4ubuntu3

1.4.1 Available under license :

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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

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1.5 coreutils 8.30-3ubuntu2

1.5.1 Available under license :

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Version 3, 29 June 2007

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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.

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You may convey a covered work in object code form under the terms

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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.

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
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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
further charge. You need not require recipients to copy the
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adversely affects the operation of the network or violates the rules and
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1.10 python-certifi 2019.11.28

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1.12 distlib 0.3.0

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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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==========

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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,
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Thanks to:

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- Preston Holmes
- Christian Hudon
- Julien Jehannet
- Jeremy Kloth
- Thomas Kluyver
-
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- Pierre Paul Lefebvre
- Tshepang Lekhonkhobe
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- Hugo Lopes Tavares
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1.13 urllib3 1.25.8

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Contributions to the urllib3 project

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * 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

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * 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>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer
<asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <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>
* IPv6 bugfixes in testsuite

* Thea Flowers <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>
 * 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>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <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]
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1.14 go-sql-driver-mysql 1.5.0

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1.20 e2fsprogs 1.45.5-2ubuntu1

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were written by Theodore Ts'o <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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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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part of
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relink to produce a modified
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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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1.21 gzip 1.10-0ubuntu4

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1.22 mawk 1.3.4.20200120-2

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1.23 libcap 2.32-1

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1.24 findutils 4.7.0-1ubuntu1

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1.29 vixie-cron 3.0pl1-136ubuntu1

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /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
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

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```
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```

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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```

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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/manl,
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):
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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 $

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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

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1.48 hostname 3.23

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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.

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

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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.

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.

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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:

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

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

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

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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work 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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That's all there is to it!

1.50 sed 4.7-1

1.50.1 Available under license :

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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

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

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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.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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.

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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.

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 further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,

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1.51 libffi 3.3-4

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1.52 init-system-helpers 1.57

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1.53 debconf 1.5.73

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1.54 ncurses 6.2-0ubuntu2

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1.55 libsepol 3.0-1

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1.56 base-passwd 3.5.47

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.59 go-md2man 2.0.0

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1.60 xz 5.2.4-1ubuntu1

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1.63 brotli 1.0.7-6ubuntu0.1

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```
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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.

1.66 golang-snappy 0.0.2

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1.67 zlib 1.2.11.dfsg-2ubuntu1.2

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 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
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1.68 libyaml 0.2.5

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1.69 python3-asn1crypto 0.24.0

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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
```

1.71 appdirs 1.4.3

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1.72 pyparsing 2.4.6

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1.73 toml 0.10.0

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1.78 iotop 0.6

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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}
}
```

1.80 futures 3.1.1

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the full notice is found.

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1.83 cron 3.0pl1-136ubuntu1

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* /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/crontab.c
* /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
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```
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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```
*
 /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8
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(Berkeley) 4/4/90
*/

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.\" @(#)bitstring.3 5.1
(Berkeley) 12/13/89
.\"

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
*
 /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1
```

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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/manl,
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.

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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

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*/

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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please, don't flame me for wanting my work to see a wider distribution.

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 $

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1.84 attr 2.4.48-5

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Version 2.1, February 1999

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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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1.88 libxcrypt 4.4.10-10ubuntu4

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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
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^L
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.94 libsodium 1.0.18

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1.96 go-redis-redis 5.2.9

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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.
*/

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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.

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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.

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customarily used for software interchange.

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written offer, valid for at least three years
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the same way through the same place at no
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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
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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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By Sean Eron Anderson
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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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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1.118 lockfile 0.12.2

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1.120 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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1.121 ansible 2.10.0

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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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1.122 lz4 1.9.2-2ubuntu0.20.04.1

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1.123 pyserial 3.5

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1.124 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

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* /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.

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /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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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
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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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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
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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/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
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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
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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
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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
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* /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

1.125 markupsafe 2.0.1

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* /sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg

1.126 future 0.18.2-1.ph3

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1.127 mpdecimal 2.5.1-r1

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1.132 libnghttp2-14 1.40.0-1build1

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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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1.133 gnutls 3.6.13-2ubuntu1.6

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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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##
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##
Constant-time SSSE3 AES core implementation.
version 0.1

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##
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included in the distribution is a just-in-time compiler that can be used to
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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Email domain: cam.ac.uk

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1.136 libssh 0.9.3-2ubuntu2.2

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1.137 importlib-metadata 4.8.1

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1.138 typing-extensions 3.10.0.2

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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	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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.142 ansible-base 2.10.14

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1.144 pam 1.3.1-5ubuntu4.3

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1.146 tdb 1.45.5

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1.150 jackc-chunkreader 2.0.1

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1.158 jcmturner-gofork 1.0.0

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1.159 queue 1.1.0

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1.160 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492

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1.161 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.162 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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1.163 golang-protobuf-extensions 1.0.1

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1.170 hashicorp-go-plugin 1.4.0

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1.171 go-difflib 1.0.0

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1.177 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.178 go-systemd 22.3.2

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1.179 json-iterator-go 1.1.11

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1.180 mwitkow-go-conntrack 0.0.0-20190716064945-2f068394615f

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1.182 zap 1.17.0

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1.183 xxhash 2.1.2

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1.184 sanitized-anchor-name 1.0.0

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1.185 gogo-googleapis 1.4.0

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1.186 x-time-rate 0.0.0-20200630173020-3af7569d3a1e

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1.187 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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1.188 json-iterator-go 1.1.10

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1.189 prometheus-procfs 0.2.0

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metrics from the pseudo-filesystem proc.

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1.190 grpc-ecosystem-go-grpc-middleware 1.2.2

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1.192 oklog-ulid 1.3.1

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1.193 urfave-cli 2.3.0

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1.213 xorm.io-core 0.7.3

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1.214 gojsondiff 1.0.0

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

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1.215 xorm.io-builder 0.3.6

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1.216 gopkg-in/mail 2.3.1

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1.217 facebookgo-structtag 0.0.0-20150214074306-217e25fb9691

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1.218 com 1.0.1

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1.219 vividcortex-mysqlerr 0.0.0-20170204212430-6c6b55f8796f

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

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1.221 go-macaron-inject 0.0.0-20160627170012-d8a0b8677191

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1.222 cheekybits-genny 1.0.0

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1.223 shortid 0.0.0-20171029131806-771a37caa5cf

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1.224 inject 0.0.0-20180706035515-f23751cae28b

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1.225 go-datemath 0.1.1-0.20200323150745-74ddef604fff

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

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1.227 go-macaron-gzip 0.0.0-20160222043647-cad1c6580a07

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1.228 uap-go 0.0.0-20190826212731-daf92ba38329

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1.229 gopkg-in/ldap 3.0.2

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1.230 benbjohnson-clock 0.0.0-20161215174838-7dc76406b6d3

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1.231 go-immutable-radix 1.3.1

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1.233 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 explains 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 conjuntion 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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```

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https://developers.google.com/open-source/cla/corporate
#
Names should be added to this file as:
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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 addtional
                         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 accecssible.
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 identifes 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.";
        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
clmgmtLicenseDeviceInfoEntry {
      key "entPhysicalIndex";
      description
       "An entry in clmgmtLicenseDeviceInfoTable. 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 clmgmtDefaultLicenseStore {
        type uint32 {
          range "1..4294967295";
```

```
        }
        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.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
       }
     }
    }

    container clmgmtLicenseInfoTable {
     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 clmgmtLicenseInfoEntry {
      key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
      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.";
      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 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:defval "";
  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:defval "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-
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";
}

}
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```

```
-- ****************************************************************************
-- 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 explains 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 conjuntion 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 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'."
  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 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."
  ::= { 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 addtional
                         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 accecssible.
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 identifes 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

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 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."
  ::= { 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 }

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

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1.234 prometheus-procfs 0.7.3

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1.236 klauspost-compress 1.11.7

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1.237 cffi 1.15.0

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1.238 globalsign-mgo 0.0.0-20181015135952-eeefdecb41b8

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1.239 influxdb 1.9.4

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1.240 mgo 0.0.0-20181015135952-eeefdecb41b8

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1.241 gosnmp 1.32.0

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1.242 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
nil
  }
 }

 return nil
})
 if err != nil {
  t.Fatal(err)
 }
}
```

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1.243 urllib3 1.26.6-1.ph1

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1.244 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.245 jpillora-backoff 1.0.0

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1.246 gomodule-redigo 2.0.0+incompatible

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1.247 golang-snappy 0.0.4

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1.248 fzambia-eagle 0.0.1

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1.249 mna-redisc 1.1.7

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1.250 mmap-go 1.0.0

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1.251 linkedin-goavro 2.10.0

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1.252 xorm.io-xorm 0.8.2

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1.253 sqlhooks 1.3.0

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1.254 getsentry-sentry-go 0.10.0

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1.255 prometheus-node-exporter 1.0.0-rc.0.0.20200428091818-01054558c289

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update-license

This is a small tool that updates the license header for Uber's open source Golang files.

Installation

```
go get go.uber.org/tools/update-license
```

Usage

```
update-license go_files...
```

Further Work

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* golang.org/x/mod/module - 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
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1.258 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 enviroment, 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](resque-scehduler)

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

1.259 opentracing-go-stdlib 1.0.0

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1.260 gogo-status 1.0.3

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1.263 sockjs 3.0.0

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1.264 mattetti-filebuffer 1.0.1

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1.266 fzambia-sentinel 1.1.0

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1.268 deepmap-oapi-codegen 1.3.13

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1.269 go-sourcemap-sourcemap 2.1.3+incompatible

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1.270 grafana-grafana-plugin-sdk-go 0.88.0

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1.271 centrifugal-protocol 0.3.4

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1.273 grafana-loki 1.6.2-0.20201026154740-6978ee5d7387

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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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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 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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Protocol Buffers for Go with Gadgets

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

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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
}
```

1.274 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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Protocol Buffers for Go with Gadgets

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

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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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1.275 opencensus 0.22.6

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1.276 google-api-go-client 0.40.0

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1.277 apache-arrow-go-arrow 0.0.0-20200629181129-68b1273cbbf7

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https://github.com/numpy/numpy/blob/e1f191c46f2eebd6cb892a4bfe14d9dd43a06c4e/numpy/core/src/multiarray/multiarraymodule.c#L2910

https://github.com/numpy/numpy/blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/datetime.c

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ultiarraymodule.c#L2910

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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)
 }
}
```

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1.279 prometheus 1.8.2-0.20201105135750-00f16d1ac3a4

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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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1.281 opentracing-contrib-go-grpc 0.0.0-20191001143057-db30781987df

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1.282 centrifugal-centrifuge 0.13.0

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1.284 influxdata-line-protocol 0.0.0-20200327222509-2487e7298839

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1.285 x-oauth2 0.0.0-20210113205817-d3ed898aa8a3

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1.286 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)
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SOFTWARE.
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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This software package is based on the paper
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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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1.295 tdb 1.45.5

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1.296 klauspost-compress 1.13.6

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1.297 match 1.1.1

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1.299 sarama 1.30.0

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1.300 coreos-semver 0.3.0

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1.302 jackc-pgproto 2.1.1

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1.303 protobuf 3.19.1

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1.304 gofpdf 1.16.2

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1.310 six 1.14.0

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1.311 jsonschema 3.2.0

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1.312 pyrsistent 0.18.0

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1.313 python 3.8.2-0ubuntu2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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)
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
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	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
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1.315 google-uuid 1.3.0

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lib/erl/src/Makefile.am

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```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
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*/
```

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

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

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

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

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.319 jaeger 1.22.1-0.20210304164023-2fff3ca58910

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1.322 antchfx-xpath 1.2.0

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1.323 jackc-pgtype 1.9.1

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1.324 supervisor 4.2.4

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1.325 systemd 245.4-4ubuntu3.15

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

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1.326 chardet 3.0.4

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1.327 lib-pq 1.10.4

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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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1.328 popt 1.16-14

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1.329 jackc-pgproto 2.2.0

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1.331 gorilla 1.8.0

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1.332 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)
}
}
```

1.333 base-files 11ubuntu5.5

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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
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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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(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.

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
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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
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Any executables containing that work also fall under Section 6,
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runs, unless that component itself accompanies
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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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1.334 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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1.335 go-engine-io 0.0.0-20200527182501-e01fec600c76

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1.336 etcd-client 3.5.2

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1.338 etcd 3.5.2

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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
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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

2.1.2	2.1.1	2002	PSF	yes
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1.342 cpp 9.4.0-1ubuntu1~20.04.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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.)

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

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

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

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

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

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

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

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

Library will still fall under Section 6.)

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

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

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

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

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

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

performing this distribution.

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

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

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distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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@end enumerate

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ways:

@enumerate
 a
@item
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.

@item
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
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cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item

Convey individual copies of the object code with a copy of the written offer
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@item
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 further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
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.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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or is expected
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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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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.

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The "Corresponding Source" for a work in object code form means all

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========

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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.)

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.

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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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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that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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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.

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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.

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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.

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The work must carry prominent notices stating that you modified it, and giving a relevant date.

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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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@item
Convey the object code in, or embodied in, a physical product
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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.

@item
Convey individual copies of the object code with a copy of the written
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@item
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
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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install
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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
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
C++			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 can also run 64-bit code, Debian provides
additional packages with names
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D:

gdc-9 GNU D Compiler
libphobos-9-dev D standard runtime library

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1.343 prometheus-client 1.12.1

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1.344 lib-pq 1.10.4

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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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1.345 urllib3 1.25.8-2ubuntu0.1

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Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
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Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>

 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * 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

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * 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>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>

* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <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>
* IPv6 bugfixes in testsuite

* Thea Flowers <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>
* 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>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <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

1.346 etcd 3.5.2

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1.347 andybalholm-brotli 1.0.4

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1.348 python-setuptools 8.8.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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. 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
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1.349 gdbm 1.23-r0

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Source-Code: tests/bcj_test.c
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Comment:
changelog.gz (commit 975d8fd) explains:
.
Recreated the BCJ test files for x86 and SPARC. The old files
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Files: dos/config.h
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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
License: config-h
configure.ac:
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comments from Autoconf 2.52g:
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dos/config.h was generated with autoheader, which tells Autoconf to
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Origin: gettext-runtime/po/Makevars (gettext-0.12)
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1.351 gzip 1.10-0ubuntu4.1

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1.352 pcre 8.39-12build1

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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.

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Written by: Philip Hazel
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1.354 bash 5.0-6ubuntu1.2

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1.356 glibc 2.31-0ubuntu9.7

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* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages_extracted/wheel/103/pkg_resources-0.0.0.dist-info/METADATA

1.370 glibc 2.31-0ubuntu9.9

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1.371 pycparser 2.20

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1.377 logrus 1.8.1

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1.379 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.380 google-uuid 1.2.0

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1.381 go-colorable 0.1.8

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1.399 e2fsprogs 1.45.5-2ubuntu1.1

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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 is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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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
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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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
-
-   Copyright (C) Andrew Tridgell   2005
+   Copyright (C) Andrew Tridgell   1999-2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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That's all there is to it!
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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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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1.401 libc-utils 0.7.2-r3

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1.402 pam 1.5.2-r1

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1.403 python-requests 2.28.1

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1.404 openssl 3.0.5

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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

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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 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 from	Year	Owner	GPL-compatible? (1)
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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
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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

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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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/compiler/subprocess.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/generated_enum_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/type.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/arenastring_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util_lite.h

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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
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* /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-
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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/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-
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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-
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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/field_mask.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/io/gzip_stream.h

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/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
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_internal.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_lite.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/compiler/java/java_doc_comment.h
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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_doc_comment_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/default_value.proto
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* /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
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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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Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/call_metric_recorder.h
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Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice.h
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Found in path(s):
* /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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Found in path(s):
* /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
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 /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
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* /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
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 /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
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* /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
* /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
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 /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
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/status.h
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 /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
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*
 /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
No license file was found, but licenses were detected in source scan.

```
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*     http://www.apache.org/licenses/LICENSE-2.0
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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
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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/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
No license file was found, but licenses were detected in source scan.

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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
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 /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/grpcpp/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/grpcpp/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/grpcpp/support/client_callback.h
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 /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/grpcpp/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/grpcpp/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
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 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/interceptor.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/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/grpcpp/impl/codegen/intercepted_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/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
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* /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
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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 :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$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 :code:`setup.py`:

::

```
 setuptools.setup(
  # ...
  cmdclass={
   'build_proto_modules': grpc_tools.command.BuildPackageProtos,
  }
  # ...
 )
```

Invocation of the command will walk the project tree and transpile every
:code:`.proto`
file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no
combination of :code:`setup_requires` or :code:`install_requires` will provide
access to :code:`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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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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Found in path(s):

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/structurally_valid_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/_parallel_compile_patch.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_protoc_compiler.pyx
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/BUILD
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/protoc.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/__init__.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/protoc_test.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/setup.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/command.py
*
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/protoc_lib_deps.py
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/* "grpc_tools/_protoc_compiler.pyx":1
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*/

Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_protoc_compiler.cpp
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*
*/

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

1.410 grpcio 1.47.0

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```
--
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--
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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    "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 addtional
                         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 accecssible.
    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 identifes
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.";
        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
clmgmtLicenseDeviceInfoEntry {
      key "entPhysicalIndex";
      description
```

```
        "An entry in clmgmtLicenseDeviceInfoTable. 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 clmgmtDefaultLicenseStore {
        type uint32 {
         range "1..4294967295";
        }
        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.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
       }
     }
   }

   container clmgmtLicenseInfoTable {
    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 clmgmtLicenseInfoEntry {
     key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
     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.";
      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 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:defval "";
   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:defval "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-
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 explains 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 conjuntion 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 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'."
  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 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."
  ::= { 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 addtional
                         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 accecssible.
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 identifes 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

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 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."
  ::= { 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 }

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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
}
```

```
    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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
    }

    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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
    }
  }
 }

 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 uniquelly 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 explains 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 conjuntion 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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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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1.412 robot-oam-grpc 0.0.0-20210923091523-4e2f9f7191f9

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*
* September 2019
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1.413 x-crypto 0.0.0-20220314234659-1baeb1ce4c0b

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1.414 lib-pq 1.10.5

1.414.1 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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1.415 gnupg 2.2.19-3ubuntu2.2

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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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1.416 x-sync 0.0.0-20220722155255-886fb9371eb4

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1.420 tenacity 8.0.1

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1.421 libcrypt 4.4.10-10ubuntu4

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1.441 pcre 8.39-12ubuntu0.1

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1.442 audit 2.8.5-2ubuntu6

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1.445 x-crypto 0.0.0-20220926161630-eccd6366d1be

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1.446 nats.go 1.13.1-0.20211018182449-f2416a8b1483

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1.447 x-crypto 0.0.0-20220926161630-eccd6366d1be

1.447.1 Available under license :

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1.448 influxdata-influxdb-client-go 2.2.0

1.448.1 Available under license :

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1.449 murmur 1.1.0

1.449.1 Available under license :

MIT

1.450 zlib 1.2.11.dfsg-2ubuntu1.5

1.450.1 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
No license file was found, but licenses were detected in source scan.

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

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

/* 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 paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
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
No license file was found, but licenses were detected in source scan.

/* 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.

/* infback.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/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
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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 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).

*/

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)

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
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

 Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
 version 1.2, 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/gzjoin.c
No license file was found, but licenses were detected in source scan.

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). 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>, or to Gilles Vollant
<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 before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb'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> 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 (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
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
* 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/gzread.c
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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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.

/* 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/inftrees.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.

/* 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.

/* 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
* /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
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.

/* 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.

/* 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.

/* 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 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 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may
not be removed or altered from any source distribution.

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

  Copyright (C) 2003, 2012 Mark Adler, all rights reserved
  version 1.2, 11 Oct 2012

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     misrepresented as being the original software.
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  removed or altered from any source distribution.

  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 lastest zlib FAQ is at 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 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.

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

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

1.451 readline 8.2.0-r0

1.451.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

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@c hence no sectioning command or @node.

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1.453 py3-parsing 3.0.9-r0

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1.454 py3-six 1.16.0-r3

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1.455 perl 5.30.0-9ubuntu0.3

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1.456 beego-beego 2.0.5

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1.457 fasthttp 1.40.0

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1.458 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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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).
*/

1.459 apk-tools 2.12.10-r1

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(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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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member

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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
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3.1.2	3.1	2010	PSF	yes
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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
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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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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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation
will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative

of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

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

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

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

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

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

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authorized party saying it may be distributed under the terms of this Lesser 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.

@item
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.

@item
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

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
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.)
@end enumerate

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.

@item
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.

@item
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.

@item
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.

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

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

@enumerate a
@item
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.)

@item
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.

@item
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.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot

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

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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:

@enumerate a
@item
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.

@item
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.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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file to most effectively
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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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 that you changed the files and the date of any change.

@item
You must cause any work that you distribute or publish, that in
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part thereof, to be licensed as a whole at no charge to all third
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@item
If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
@end enumerate

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

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

@item
You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

@enumerate a
@item
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; or,

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

@item
Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial
distribution and only if you
received the program in object code or executable form with such

an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts
as
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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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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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man/bitstring.3bsd
man/errc.3bsd
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src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
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c) Accompany
it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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1.472 gettext 0.21.1-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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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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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
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@item
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However, linking a ``work that uses the Library" with the Library
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it
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threshold for this to be true is not precisely defined by law.

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

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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.

@item
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@enumerate a
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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.)

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

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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
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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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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 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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Version 3.1, 31 March 2009

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1.476 sh 1.14.3

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1.477 brotli 1.0.9-r9

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1.479 distlib 0.3.6

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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.

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
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3.2	3.1	2010	PSF	yes

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1.480 colorama 0.4.5

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1.481 python-certifi 2022.09.24

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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
 $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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1.482 pep517 0.13.0

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1.483 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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1.484 bzip2 1.0.8-r4

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.485 python-setuptools 65.6.0

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1.486 alpine-baselayout 3.4.0-r0

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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
}

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
```

```
build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
```

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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"
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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"
```

1.487 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"

_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 apkbuild-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"

_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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*
* 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"

_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"
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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"
```

1.488 busybox 1.35.0-r29

1.488.1 Available under license :

```
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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
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2.5.1	2.5	2007	PSF	yes
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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
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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
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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	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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1.492 alpine-baselayout 3.4.0-r0

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url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
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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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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
```

```
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
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```
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"
```

1.493 py3-setuptools 65.6.0-r0

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1.494 python 3.8.10-0ubuntu1~20.04.5

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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
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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	PSF	yes

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1.498 shadow 4.8.1-1ubuntu5.20.04.4

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1.500 wget 1.21.3-r2

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1.512 bash 5.2.15-r0

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1.514 perks 1.0.1

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Version 1.7 12 August 2012 Mark Adler */

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  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 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.

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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

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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 paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

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

/* 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.

/* infback.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/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 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
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
* 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
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)

      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
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

 Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
 version 1.2, 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/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). 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>, or to Gilles Vollant
<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 before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb'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> 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 (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
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
* 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/gzread.c
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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 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.

/* 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/inftrees.h
No license file was found, but licenses were detected in source scan.

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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.

/* 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.

/* 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.

/* 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
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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 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 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.
*/

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* /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
*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
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/* 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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removed or altered from any source distribution.

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
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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 lastest zlib FAQ is at 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 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.

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

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

1.516 x-net 0.4.0

1.516.1 Available under license :

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1.517 ca-certificates 20220614-r4

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/* 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>
* All rights reserved.
*
* This software is licensed under the MIT License.
* Full license available at: http://opensource.org/licenses/MIT
*/

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* /ca-certificates-20220614-tar-bz2/ca-certificates-20220614/c_rehash.c

1.518 sqlite 3.40.1-r0

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1.519 prometheus-client 0.2.0

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1.520 crewjam-saml 0.4.9

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1.521 markupsafe 2.1.2

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* /sailfishos-mirror-markupsafe-2-1-2-0-gc0254f0-1-tar-gz/sailfishos-mirror-markupsafe-f56c4bc/setup.cfg
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* /sailfishos-mirror-markupsafe-2-1-2-0-gc0254f0-1-tar-gz/sailfishos-mirror-markupsafe-f56c4bc/LICENSE.rst

1.522 python-setuptools 45.2.0-1ubuntu0.1

1.522.1 Available under license :

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	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
a modified version without making your changes open source. The
GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

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==========

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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.

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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	PSF	yes

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```
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```

setuptools distutils --very-verbose

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

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-
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***

`fastjsonschema`
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***

`validate-pyproject`
==========

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1.523 crosswork-robot-api 4.5.0.5

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cw_ztp_license_device.proto

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 2^28.	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)
Protocol Documentation

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cw_ztp_license_device_v2.proto

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, 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,
}
# Protocol Documentation
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   - [ZtpLicense](#cwztpsvc-ZtpLicense)

- [Scalar Value Types](#scalar-value-types)



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<p align="right"><a href="#top">Top</a></p>

## 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_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,
}
```

1.524 python-pkg-resources 45.2.0-1ubuntu0.1

1.524.1 Available under license :

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1.525 wheel 0.34.2-1ubuntu0.1

1.525.1 Available under license :

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1.526 procps 3.3.17-r2

1.526.1 Available under license :

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1.528 robot-infra-utils 1.0.2-0.20221209050430-08312f1d185d

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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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@end macro

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@end macro

@macro copyrightend{}
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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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@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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Python was created in the early 1990s by Guido van Rossum at Stichting
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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 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.

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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	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.556 grpc-go 1.53.0

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1.557 x-net 0.7.0

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1.558 gnutls 3.6.13-2ubuntu1.8

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##
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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.

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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.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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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.
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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
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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.561 robot-robot-api 0.0.0-20230223115406-745b54cf2c1e

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cw_ztp_license_device.proto

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 2^28.	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)

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  - [ZtpLicenseDeviceV2](#cwztpsvc-ZtpLicenseDeviceV2)

- [Scalar Value Types](#scalar-value-types)

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cw_ztp_license_device_v2.proto

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, 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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## 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,
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 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,
}
```

1.562 golang-genproto 0.0.0-20230221151758-ace64dc21148

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1.564 modernc.org-libc 1.22.3

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1.567 gogo-protobuf 1.3.2

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1.568 mattn-go-isatty 0.0.12

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1.571 systemd 245.4-4ubuntu3.20

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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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```
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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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ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz.

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Author: Per Bothner

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1.578 libpkit 0.23.20-1ubuntu0.1

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1.579 protobuf 1.29.0

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1.580 base-files 11ubuntu5.7

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Ty Coon, President of Vice
```

That's all there is to it!

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1.581 kerberos 1.17-6ubuntu4.3

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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
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lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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kprop/kpropd_rpc.c

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Protocol Documentation

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cw_ztp_license_device.proto

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 2^28.	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)

Protocol Documentation

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- [cw_ztp_license_device_v2.proto](#cw_ztp_license_device_v2-proto)

- [ZtpLicenseDeviceV2](#cwztpsvc-ZtpLicenseDeviceV2)

- [Scalar Value Types](#scalar-value-types)

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cw_ztp_license_device_v2.proto

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, 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,
}
# Protocol Documentation
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- [cw_ztp_license.proto](#cw_ztp_license-proto)
   - [ZtpLicense](#cwztpsvc-ZtpLicense)

- [Scalar Value Types](#scalar-value-types)



<a name="cw_ztp_license-proto"></a>
```

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cw_ztp_license.proto

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,
}
```

1.583 robot-infra-utils 1.0.2-0.20230314091015-38af2f7704cc

1.583.1 Available under license :

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Version 2.1, February 1999

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)
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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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

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)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
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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.
- Arguments more compliant with python standard

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1.587 libpython3-8-minimal 3.8.10-0ubuntu1~20.04.7

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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, 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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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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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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1.590 systemd 245.4-4ubuntu3.21

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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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1.601 google-golang-org-genproto 0.0.0-20230306155012-7f2fa6fef1f4

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1.603 py3-six 1.16.0-r3

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1.604 py3-setuptools 65.6.0-r0

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1.605 libnss-nisplus 2.31

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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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1.611 libnss-nis 3.2

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Regardless of what server hosts the Corresponding Source, you remain
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@item
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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this

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END OF TERMS AND CONDITIONS

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.

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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

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@heading Preamble

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applies also to any other work released this way by its authors. You
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 apply it to your programs, too.

When we speak of free software, we are referring to freedom, not
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want it, that you can change the software or use pieces of it in new
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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.

@heading TERMS AND CONDITIONS

@enumerate 0
@item 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.

@item 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.

@item Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
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to run the unmodified Program. The output from running a
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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
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@item 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

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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.

@item 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 publish on each copy an appropriate copyright notice; 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 recipients a copy of this License along with the Program.

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.

@item 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:

@enumerate a
@item
The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item
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''.

@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will

therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item
If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
@end enumerate

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.

@item 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:

@enumerate a
@item
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.

@item
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.

@item
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.

@item
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
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

@item
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.

@end enumerate

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the
 object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any
tangible personal property which is normally used for personal,
family, or household purposes, or (2) anything designed or sold for
incorporation into a dwelling. In determining whether a product is a
consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
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1.616 gosnmp 1.31.0

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1.617 grpc-gateway 1.16.0

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1.618 nitishv-go-engine.io 0.0.0-20200527182501-e01fec600c76

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1.619 c-ares 1.17.0

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1.620 python 3.8.10

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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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1.3 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
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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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2.1.1		2001-now	PSF	yes

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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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
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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. 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
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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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1.623 paramiko 2.11.0

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1.624 python-certifi 2023.7.22

1.624.1 Available under license :

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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1.625 python-setuptools 44.0.0

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1.626 python-pip 22.3.1

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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
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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
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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
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releases have also been GPL-compatible; the table below summarizes
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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	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.628 psutil 5.6.7

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1.629 python-certifi 2021.10.8

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.630 influxdb 1.9.4

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1.631 ansible 2.10.7

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bugfixes:
- "Prevent templating unused variables for {% include %} (https://github.com/ansible/ansible/issues/68699)"
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Version 3, 29 June 2007

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- when: vcsim is not defined
block:
- name: Add a vCenter evaluation license
vcenter_license: &vcenter_lic_data
hostname: "{{ vcenter_hostname }}"
username: "{{ vcenter_username }}"
password: "{{ vcenter_password }}"
validate_certs: false
license: 00000-00000-00000-00000-00000
state: present

```
 - name: Remove an (unused) vCenter evaluation license
   vcenter_license:
     <<: *vcenter_lic_data
     state: absent

 - name: Add an invalid vCenter license
   vcenter_license:
     <<: *vcenter_lic_data
     license: 00000-00000-00000-00000-00001
     state: present
   register: vcenter_license_output
   failed_when: '"is not existing or can not be added" not in vcenter_license_output.msg'
```

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1.633 atomic 1.7.0

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1.634 robot-telemetry_proto 0.0.0-20230914163633-af56cfc599c4

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```
--
-- Juniper Enterprise Specific MIB: License MIB
--
-- Copyright (c) 2010, Juniper Networks, Inc.
-- All rights reserved.
--
-- The contents of this document are subject to change without notice.
--

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    "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 addtional
                         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 accecssible.
  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 identifes
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.";
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
 clmgmtLicenseDeviceInfoEntry {
      key "entPhysicalIndex";
      description
       "An entry in clmgmtLicenseDeviceInfoTable. 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 clmgmtDefaultLicenseStore {
        type uint32 {
          range "1..4294967295";
        }
        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.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
      }
    }
  }

  container clmgmtLicenseInfoTable {
    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 clmgmtLicenseInfoEntry {
      key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
      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.";
      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 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:defval "";
  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:defval "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-
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
--
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-- 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 explains 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 conjuntion 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 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'."
  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 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."
    ::= { 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 addtional
                          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 accecssible.
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 identifes 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

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 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."
  ::= { 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 }

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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
    }

    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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
    }

    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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
     }
    }
  }

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 uniquelly 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 explains 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 conjuntion 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";
}

}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#     Name <email address>

Paul Borman <borman@google.com>
Andrew Fort <afort@arista.com>
Rob Shakir <robjs@google.com>
--
-- Juniper Enterprise Specific MIB: License MIB
--
-- Copyright (c) 2010, Juniper Networks, Inc.
-- All rights reserved.
--
-- The contents of this document are subject to change without notice.
--

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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1.635 wheel 0.34.2

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1.636 openssl 3.2.0

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1.637 python3.8 3.8.10-0ubuntu1~20.04.9

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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	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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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	PSF	yes

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1.643 zlib 1.2.12

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1.644 protobuf 1.32.0

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1.645 golang 1.22.0

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

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1.669 retrying 1.3.3

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* Being respectful of differing viewpoints and experiences
* Gracefully accepting constructive criticism
* Focusing on what is best for the community
* Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

* The use of sexualized
language or imagery and unwelcome sexual attention or
advances
* Trolling, insulting/derogatory comments, and personal or political attacks
* Public or private harassment
* Publishing others' private information, such as a physical or electronic address, without explicit permission
* Other conduct which could reasonably be considered inappropriate in a professional setting

Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

Scope

This Code of Conduct applies both within
project spaces and in public spaces
when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be

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Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be
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Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good
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permanent repercussions as determined by other
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1.672 glibc 2.31-0ubuntu9.16

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@enumerate a
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@subheading END OF TERMS AND CONDITIONS

@page
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1.673 python-requests 2.32.3

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1.674 urllib3 1.26.19

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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)
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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
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Mersenne Twister

The `_random' module includes code based on a download from
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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)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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The `socket' module uses the functions, `getaddrinfo', and
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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