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1.3 log-rotate 3.14.0-4ubuntu3

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1.5 python-certifi 2019.11.28

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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#>

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1.7 distlib 0.3.0

1.7.1 Available under license :

A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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=====
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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
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- Godefroid Chapelle
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- Christophe Combelles
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1.8 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/@WBRSRIBZDhBFXQB6/>>

* 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

- * Benjamin 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]

1.9 coreos-semver 0.3.0

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Fortuna in libhcrypto

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Camellia in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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@heading Richard Outerbridge

DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Secure Endpoints Inc

Windows support

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@heading Novell, Inc

lib/hcrypto/test_dh.c

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/database.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/misc.c
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/job.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/do_command.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/user.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/config.h
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/entry.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.h
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/env.c
*/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.c
```

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

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3
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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1
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*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

```
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* Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
```

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by

Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

*/

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# * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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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 \$

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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1.20 python-setuptools 45.2.0

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1.21 gorilla 1.4.1

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1.24 dpkg 1.19.7ubuntu3

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1.25 libpsl 0.21.0-1ubuntu1

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1.26 apache-thrift 0.13.0

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compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln

lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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```
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/*

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L. Peter Deutsch
ghost@aladdin.com

*/

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```

```
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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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1.29 sensible-utils 0.0.12+nmu1

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Upstream-Name: sensible-utils

Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

Source: <https://alioth.debian.org/projects/collab-maint/sensible-utils.git>

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1.30 debianutils 4.9.1

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1.31 hostname 3.23

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1.35 base-passwd 3.5.47

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1.36 bash 5.0-6ubuntu1.1

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1.38 cdebconf 0.251ubuntu1

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1.39 tre 0.8.0

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1.40 bzip2 1.0.8-r1

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

1.41 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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```
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 * $Id$
 */
```

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1.42 brotli 1.0.7-6ubuntu0.1

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1.43 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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*/

1.44 libyaml 0.2.5

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1.45 python3-asn1crypto 0.24.0

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1.46 idna 2.8

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```
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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):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

1.47 appdirs 1.4.3

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1.48 pyparsing 2.4.6

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1.49 toml 0.10.0

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- b) 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,

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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.

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1.56 futures 3.1.1

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Because
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concluded that weaker conditions might promote sharing better.

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

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

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

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```

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```
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```

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1.58 cron 3.0pl1-136ubuntu1

1.58.1 Available under license :

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

```
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* All rights reserved
*
* Distribute freely, except: don't remove my name from the source or
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* get me blamed for your possible bugs), don't alter or remove this
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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by

Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows `_PATH_SENDMAIL` to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the ``crontab'` command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another ``crontab -r'` command. (2) The crontab command will affect the crontab of the person using the command unless ``-u USER'` is given; ``-u'` only works for root. When using most ``su'` commands under most BSD's, ``crontab'` will still think of you as yourself even though you may think of yourself as root -- so use ``-u'` liberally. (3) the ``-r'` option stands for ``replace'`; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do ``ps aux'` and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `'&'` is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to
be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
```

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c
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*
* @(#)bitstring.h 5.2
(Berkeley) 4/4/90
*/
```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h
No license file was found, but licenses were detected in source scan.
```

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```

```
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```

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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

```

Found in path(s):

```

*
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5
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```

```

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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

```

Found in path(s):

```

*
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1
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```

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

```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3
```

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

```

Found in path(s):

```
*
```

/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8

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 *
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 * I'll try to keep a version up to date. I can be reached as follows:
 * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
 */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

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```
* I'll try to keep a version up to date. I can be reached as follows:  
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul  
*/
```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h  
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h  
*
```

```
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
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```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/Makefile
```

1.59 attr 2.4.48-5

1.59.1 Available under license :

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Version 2.1, February 1999

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1.62 mime-support 3.64ubuntu1

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1.63 kerberos 1.17-6ubuntu4.1

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1.64 Isb 11.1.0ubuntu2

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1.65 wheel 0.34.2-1

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1.66 libxcrypt 4.4.10-10ubuntu4

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1.67 sysv-init 2.96-2.1ubuntu1

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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.70 grpc-go 1.29.1

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1.71 iconv 2.31

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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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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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.

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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.

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Here is a sample; alter the names:

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

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Version 3, 29 June 2007

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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 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.

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

1. Source Code.

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

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

The

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

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

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

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section 10
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is 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 "Lesser" General Public License because it does 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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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```
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@smallexample

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```
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for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
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```

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1.76 sed 4.7 1

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1.77 libgpg-error 1.37 1

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1.78 e2fsprogs 1.45.5 2ubuntu1

1.78.1 Available under license :

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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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2. 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>.

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

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
```

\$(RM) -f ../\$(BSD_LIB)

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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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) 19yy <name of author>

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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY;
for details type `show w'.
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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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.>  
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```

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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:

```
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.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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

Activities

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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

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

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

therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

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

Whether this is true is especially significant if the work can be linked without the Library,

or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
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:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.79 findutils 4.7.0 1ubuntu1

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```
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1.80 ncurses 6.2 Ubuntu2

1.80.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Files: doc/html/NCURSES-Programming-HOWTO.html
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-- vile: txtmode file-encoding=utf-8

1.81 libffi 3.3 4

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1.84 grep 3.4 1

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1.85 dash 0.5.10.2 6

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1.86 mawk 1.3.4.20200120 2

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1.87 python-setuptools 45.2.0-1

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1.88 wheel 0.34.2-1

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```
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1.90 zstd 1.4.4+dfsg-3ubuntu0.1

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```
/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/
```

1.91 c-ares 1.17.0

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1.92 fdisk 2.34.0

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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.>

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

```
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.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

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

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1.93 libtasn 4.16.0-2

1.93.1 Available under license :

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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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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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

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

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Otherwise, if the work is a derivative of the Library, you may

distribute the

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the work with the complete corresponding

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if

the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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 materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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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.

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(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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* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/README.rst
No license file was found, but licenses were detected in source scan.
```

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```

Found in path(s):

```
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/ext/__init__.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/ext/iterable.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/ext/filter.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/ext/arithmetic.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/ext/string.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/tests/test_jsonpath_rw_ext.py
*
/opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/ext/parser.py
No license file was found, but licenses were detected in source scan.
```

Metadata-Version: 1.1

Name: jsonpath-ng

Version: 1.4.3

Summary: A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators and providing clear AST for metaprogramming.

Home-page: <https://github.com/h2non/jsonpath-ng>

Author: Tomas Aparicio

Author-email: tomas@aparicio.me

License: Apache 2.0

Description: Python JSONPath Next-Generation |[Build Status](#)| |[PyPI](#)| |[Coverage Status](#)|

=====

A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic and binary comparison operators, as defined in the original `JSONPath proposal`_.

This packages merges both `jsonpath-rw`_ and `jsonpath-rw-ext`_ and provides several AST API enhancements, such as the ability to update or removes nodes in the tree.

About

This library provides a robust and significantly extended implementation of JSONPath for Python. It is tested with CPython 2.6, 2.7 & 3.x.

This library differs from other JSONPath implementations in that it is a full *language* implementation, meaning the JSONPath expressions are first class objects, easy to analyze, transform, parse, print, and extend.

Quick Start

To install, use pip:

```
.. code:: bash
```

```
$ pip install --upgrade jsonpath-ng
```

Usage

Basic examples:

```
.. code:: python
```

```
$ python
```

```
>>> from jsonpath_ng import jsonpath, parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

```
# Extracting values is easy
```

```
>>> [match.value for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]})]  
[1, 2]
```

```
# Matches remember where they came from
```

```
>>> [str(match.full_path) for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]})]  
['foo.[0].baz', 'foo.[1].baz']
```

```
# And this can be useful for automatically providing ids for bits of data that do not have them (currently a  
global switch)
```

```
>>> jsonpath.auto_id_field = 'id'
```

```
>>> [match.value for match in parse('foo[*].id').find({'foo': [{'id': 'bizzle'}, {'baz': 3}]})]  
['foo.bizzle', 'foo.[1]']
```

```
# A handy extension: named operators like `parent`
```

```
>>> [match.value for match in parse('a.*b.`parent`.c').find({'a': {'x': {'b': 1, 'c': 'number one'}, 'y': {'b': 2, 'c': 'number two'}}}]]
['number two', 'number one']
```

You can also build expressions directly quite easily

```
>>> from jsonpath_ng.jsonpath import Fields
>>> from jsonpath_ng.jsonpath import Slice

>>> jsonpath_expr_direct = Fields('foo').child(Slice('*')).child(Fields('baz')) # This is equivalent
```

Using the extended parser:

```
.. code:: python
```

```
$ python
```

```
>>> from jsonpath_ng.ext import parse
```

```
# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
```

```
>>> jsonpath_expr = parse('foo[*].baz')
```

JSONPath Syntax

The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular, some new operators such as ``|`` and ``where`` are available, and parentheses are used for grouping not for

callbacks into Python, since with these changes the language is not trivially associative. Also, fields may be quoted whether or not they are contained in brackets.

Atomic expressions:

Syntax	Meaning
``\$``	The root object
``this``	The "current" object.
``foo``	More generally, this syntax allows "named operators" to extend JSONPath in arbitrary ways

field	Specified field(s), described below	
``[*field*]``	Same as *field*	
``[*idx*]``	Array access, described below (this is always unambiguous with field access)	

Jsonpath operators:

Syntax	Meaning	
jsonpath1 ``.`` *jsonpath2*	All nodes matched by *jsonpath2* starting at any node matching *jsonpath1*	
jsonpath ``[*whatever*]``	Same as *jsonpath* \ ``.`` *whatever*	
jsonpath1 ``.`` *jsonpath2*	All nodes matched by *jsonpath2* that descend from any node matching *jsonpath1*	
jsonpath1 ``where`` *jsonpath2*	Any nodes matching *jsonpath1* with a child matching *jsonpath2*	
jsonpath1 `` `` *jsonpath2*	Any nodes matching the union of *jsonpath1* and *jsonpath2*	

Field specifiers (*field*):

Syntax	Meaning	
``fieldname``	the field ``fieldname`` (from the "current" object)	
``"fieldname"``	same as above, for allowing special characters in the fieldname	
``'fieldname'``	ditto	
``*``	any field	
field ``,`` *field*	either of the named fields (you can always build equivalent jsonpath using `` ``)	

Array specifiers (*idx*):

Syntax	Meaning
<code>[`[\ *n*\ `]]`</code>	array index (may be comma-separated list)
<code>[`[\ *start*\ `?:`\ *end*\ `?]\ `]]`</code>	array slicing (note that *step* is unimplemented only due to lack of need thus far)
<code>[`[*]\ `]]`</code>	any array index

Programmatic JSONPath

If you are programming in Python and would like a more robust way to create JSONPath expressions that does not depend on a parser, it is very easy to do so directly, and here are some examples:

- `Root()`
- `Slice(start=0, end=None, step=None)`
- `Fields('foo', 'bar')`
- `Index(42)`
- `Child(Fields('foo'), Index(42))`
- `Where(Slice(), Fields('subfield'))`
- `Descendants(jsonpath, jsonpath)`

Extras

- ***Path data***: The result of `JsonPath.find` provide detailed context and path data so it is easy to traverse to parent objects, print full paths to pieces of data, and generate automatic ids.
- ***Automatic Ids***: If you set `jsonpath_ng.auto_id_field` to a value other than None, then for any piece of data missing that field, it will be replaced by the JSONPath to it, giving automatic unique ids to any piece of data. These ids will take into account any ids already present as well.
- ***Named operators***: Instead of using `@` to reference the currently object, this library uses ```this```. In general, any string contained in backquotes can be made to be a new operator, currently by extending the library.

Extensions

name	Example
len	- \$.objects.`len`
sub	- \$.field.`sub(/foo\\ \\+(.*)/, \\ 1)`
split	- \$.field.`split(+, 2, -1)`
	- \$.field.`split(sep, segment, maxsplit)`
sorted	- \$.objects.`sorted`
	- \$.objects[\\some_field]
	- \$.objects[\\some_field,/other_field]
filter	- \$.objects[?(@some_field > 5)]
	- \$.objects[?some_field = "foobar"]
	- \$.objects[?some_field > 5 & other < 2]
arithmetic	- \$.foo + "_" + \$.bar
(+*/)	- \$.foo * 12
	- \$.objects[*].cow + \$.objects[*].cat

About arithmetic and string

Operations are done with python operators and allows types that python allows, and return [] if the operation can be done due to incompatible types.

When operators are used, a jsonpath must be fully defined otherwise jsonpath-rw-ext can't know if the expression is a string or a jsonpath field, in this case it will choose string as type.

Example with data::

```
{
  'cow': 'foo',
  'fish': 'bar'
}
```

```
**cow + fish** returns **cowfish**
**$.cow + $.fish** returns **foobar**
**$.cow + "_" + $.fish** returns **foo_bar**
```

```
| **$.cow + "_" + fish** returns **foo_fish**
```

About arithmetic and list

Arithmetic can be used against two lists if they have the same size.

Example with data::

```
{'objects': [
  {'cow': 2, 'cat': 3},
  {'cow': 4, 'cat': 6}
]}
```

```
| **$.objects[*].cow + $.objects[*].cat** returns **[6, 9]**
```

More to explore

There are way too many JSONPath implementations out there to discuss. Some are robust, some are toy projects that still work fine, some are exercises. There will undoubtedly be many more. This one is made for use in released, maintained code, and in particular for programmatic access to the abstract syntax and extension. But JSONPath at its simplest just isn't that complicated, so you can probably use any of them successfully. Why not this one?

The original proposal, as far as I know:

```
- `JSONPath - XPath for
  JSON <http://goessner.net/articles/JSONPath/>` __ by Stefan Goessner.
```

Other examples

Loading json data from file

.. code:: python

```
import json
d = json.loads('{"foo": [{"baz": 1}, {"baz": 2}]}')
# or
with open('myfile.json') as f:
    d = json.load(f)
```

Special note about PLY and docstrings

The main parsing toolkit underlying this library, `PLY <https://github.com/dabeaz/ply>`__``, does not work with docstrings removed. For example, ```PYTHONOPTIMIZE=2``` and ```python -OO``` will both cause a failure.

Contributors

This package is authored and maintained by:

- `Kenn Knowles <https://github.com/kennknowles>`__
(`@kennknowles <https://twitter.com/KennKnowles>`__)
- `Tomas Aparicio <https://github.com/h2non>`

with the help

of patches submitted by `these contributors <https://github.com/kennknowles/python-jsonpath-ng/graphs/contributors>`__.

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.. `_`JSONPath proposal``: <http://goessner.net/articles/JsonPath/>

.. `_`jsonpath-rw``: <https://github.com/kennknowles/python-jsonpath-rw>

.. `_`jsonpath-rw-ext``: <https://pypi.python.org/pypi/jsonpath-rw-ext/>

.. `[PyPi downloads] image::` <https://pypi.in/d/jsonpath-ng/badge.png>

`:target:` <https://pypi.python.org/pypi/jsonpath-ng>

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```
.. |PyPI| image:: https://img.shields.io/pypi/v/jsonpath-ng.svg?maxAge=2592000?style=flat-square
   :target: https://pypi.python.org/pypi/jsonpath-ng
.. |Coverage Status| image:: https://coveralls.io/repos/github/h2non/jsonpath-ng/badge.svg?branch=master
   :target: https://coveralls.io/github/h2non/jsonpath-ng?branch=master
.. |Documentation Status| image:: https://img.shields.io/badge/docs-latest-green.svg?style=flat
   :target: http://jsonpath-ng.readthedocs.io/en/latest/?badge=latest
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Found in path(s):

```
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng.egg-
info/PKG-INFO
```

```
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/PKG-INFO
```

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```

Found in path(s):

```
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-
1.4.3/jsonpath_ng/bin/jsonpath.py
```

1.103 kafka-python 1.4.5

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1.104 python 3.8.10

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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.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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

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1.105 cachecontrol 0.12.6

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1.106 urllib3 1.25.8

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

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/@WBRSRIBZDhBFXQB6/>>

* 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

- * Benjamin 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@gmail.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]

1.107 contextlib2 0.6.0

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=====

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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

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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
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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1.109 future 0.18.2

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1.110 lockfile 0.12.2

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1.111 python-requests 2.22.0

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1.112 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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David M. Beazley (Dabeaz LLC)

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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

Found in path(s):

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
```

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```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/cpp.py
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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py

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1.113 Jinja2 2.11.2

1.113.1 Available under license :

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)
```

```
setup(
```

```
    name="Jinja2",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/jinja/",
```

```
    project_urls={
```

```
        "Documentation": "https://jinja.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/jinja",
```

```
        "Issue tracker": "https://github.com/pallets/jinja/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    author="Armin Ronacher",
```

```
    author_email="armin.ronacher@active-4.com",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```

description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
    "Development Status
:: 5 - Production/Stable",
    "Environment :: Web Environment",
    "Intended Audience :: Developers",
    "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 :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
    "Programming Language :: Python :: 3.8",
    "Programming Language :: Python :: Implementation :: CPython",
    "Programming Language :: Python :: Implementation :: PyPy",
    "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

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Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can

use autoescaping to prevent XSS from untrusted

user input.

- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using `pip`_:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. _pip:

<https://pip.pypa.io/en/stable/quickstart/>

In A Nutshell

.. code-block:: jinja

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

Links

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development

Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*

Description-Content-Type:

text/x-rst

Provides-Extra: i18n

Found in path(s):

* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

1.114 supervisor 4.2.0

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1.115 jinja2 2.10.2

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1.116 ansible 2.10.0

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bugfixes:

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

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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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 '>'

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*

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
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Found in path(s):

- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
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- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
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- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
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- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
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- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
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- /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
- * /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py

* /opt/cola/permits/1168963812_1622802919.99/0/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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version.

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py

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/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwincompiler.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwincompiler.py

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Found in path(s):

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

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executable.

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py

* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py

* /opt/cola/permits/1168963812_1622802919.99/0/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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```
file.write('License: %s\n' % self.get_license())
```

Found in path(s):

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
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```

1.119 markupsafe 2.0.1

1.119.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1173095378_1623434331.78/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst
```

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Found in path(s):

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* /opt/cola/permits/1173095378_1623434331.78/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg
```

1.120 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

1.120.1 Available under license :

```
/* nettle-internal.c
```

Things that are used only by the testsuite and benchmark, and not included in the library.

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Upstream-Name: Nettle

Upstream-Contact: Niels Mller <nisse@lysator.liu.se>

Source: <http://www.lysator.liu.se/~nisse/nettle/>

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.

A list of the supported algorithms, their origins and licenses (from the manual):

.

AES

The implementation of the AES cipher (also known as rijndael) is written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and Niels Mller, Sparc assembler by Niels Mller. Released under the LGPL.

.

ARCFOUR

The implementation of the ARCFOUR (also known as RC4) cipher is written by Niels Mller. Released under the LGPL.

.

ARCTWO

The implementation of the ARCTWO (also known as RC2) cipher is written by Nikos Mavroyanopoulos and modified by Werner Koch and Simon Josefsson. Released under the LGPL.

.

BLOWFISH

The implementation of the BLOWFISH cipher is written by Werner Koch, copyright owned by the Free Software Foundation. Also hacked by Simon Josefsson and Niels Mller. Released under the LGPL.

.

CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86_64 by Niels Mller. Released under the LGPL.

.

CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

.

DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

.

MD2

The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Mller. Python Cryptography Toolkit license (essentially public domain).

.

MD4

This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

.

MD5

The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain.

.

SERPENT

The implementation of the SERPENT is based on the code in libcrypt, copyright owned by the Free Software Foundation. Adapted to Nettle by Simon Josefsson and heavily modified by Niels Mller. Assembly for x86_64 by Niels Mller. Released under the LGPL.

.

SHA1

The C implementation of the SHA1 message digest is written by Peter Gutmann, and hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain. Assembler for x86 by Niels Mller, released under the LGPL.

.

SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

.

TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

.

RSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

.

DSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

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1.125 python-requests 2.26.0

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1.126 contextlib2 21.6.0

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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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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		
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@macro copyrightend{ }

@end macro

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@comment node-name, next, previous, up

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GSS-API mechglue layer.

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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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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@end macro  
  
@macro copyrightstart{ }  
@end macro  
  
@macro copyrightend{ }  
@end macro
```

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@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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@macro copynext{ }  
@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

```
@heading Kungliga Tekniska Hgskolan
```

```
@copyrightstart  
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@asis

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@item KCM credential cache.

@item HDB LDAP backend.

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Fortuna in libhcrypto

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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 libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
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@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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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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kdc/announce.c

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DES core in libcrypto

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test_dh.c

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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

Source: <https://github.com/heimdal/heimdal>

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

lib/wind/rfc4518.txt

Files: *

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1.135 python-pkg-resources 45.2.0-1

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1.136 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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```

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@end macro
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@end macro
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@macro copyrightend{ }  
@end macro
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@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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@end macro
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@end macro
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@macro copyrightend{ }  
@end macro
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@appendix Copyrights and Licenses
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@item KCM credential cache.

@item HDB LDAP backend.

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@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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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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1.143 pcre 10.34-7

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Written by: Philip Hazel

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1.144 kerberos 1.17-6ubuntu4.1

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_log.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.145 importlib-metadata 4.8.1

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1.146 typing-extensions 3.10.0.2

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.150 procps 3.3.16-1ubuntu2.3

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1.151 ansible-base 2.10.14

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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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bugfixes:

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

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1.152 python-setuptools 58.1.0

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1.153 pam 1.3.1-5ubuntu4.3

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1.154 zipp 3.6.0

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1.155 tdb 1.45.5

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1.156 jinja2 3.0.2

1.156.1 Available under license :

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```
[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
```

```
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://jinja.palletsprojects.com/
    Changes = https://jinja.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/jinja/
    Issue Tracker = https://github.com/pallets/jinja/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Intended Audience :: Developers
    License :: OSI Approved ::
    BSD License
    Operating System :: OS Independent
    Programming Language :: Python
    Topic :: Internet :: WWW/HTTP :: Dynamic Content
    Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = true
python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
    jinja2 = jinja2.ext:babel_extract[!18n]

[tool:pytest]
testpaths = tests
filterwarnings =
    error
    ignore:The loop argument:DeprecationWarning:asyncio[.]base_events:542

[coverage:run]
```

```
branch = True
source =
  jinja2
  tests
```

```
[coverage:paths]
source =
  src
  */site-packages
```

```
[flake8]
select = B, E, F, W, B9, ISC
ignore =
  E203
  E501
  E722
  W503
max-line-length = 80
per-file-ignores =
  src/jinja2/__init__.py: F401
```

```
[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport
  = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

```
[mypy-jinja2.defaults]
no_implicit_reexport = False
```

```
[mypy-markupsafe]
no_implicit_reexport = False
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

* /opt/cola/permits/1210557185_1633418177.62/0/jinja2-3-0-2-tar-gz/Jinja2-3.0.2/setup.cfg

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause
Project-URL: Donate, <https://palletsprojects.com/donate>
Project-URL: Documentation, <https://jinja.palletsprojects.com/>
Project-URL: Changes, <https://jinja.palletsprojects.com/changes/>
Project-URL: Source Code, <https://github.com/pallets/jinja/>
Project-URL: Issue Tracker, <https://github.com/pallets/jinja/issues/>
Project-URL: Twitter, <https://twitter.com/PalletsTeam>
Project-URL: Chat, <https://discord.gg/pallets>
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier:
Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
License-File: LICENSE.rst

Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
-
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if

possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using `pip`_:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. _pip: <https://pip.pypa.io/en/stable/getting-started/>

In A Nutshell

.. code-block:: jinja

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }
<ul>
{% for user in users % }
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor % }
</ul>
{% endblock % }
```

Donate

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.. _please donate today: <https://palletsprojects.com/donate>

Links

- Documentation: <https://jinja.palletsprojects.com/>

- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
- Issue Tracker: <https://github.com/pallets/jinja/issues/>
- Website: <https://palletsprojects.com/p/jinja/>
- Twitter: <https://twitter.com/PalletsTeam>
- Chat: <https://discord.gg/pallets>

Found in path(s):

- * /opt/cola/permits/1210557185_1633418177.62/0/jinja2-3-0-2-tar-gz/Jinja2-3.0.2/PKG-INFO
- * /opt/cola/permits/1210557185_1633418177.62/0/jinja2-3-0-2-tar-gz/Jinja2-3.0.2/src/Jinja2.egg-info/PKG-INFO

1.157 iotop 0.6-24-g733f3f8-1

1.157.1 Available under license :

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Version 2, June 1991

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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.158 jackc-chunkreader 2.0.1

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1.159 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.160 jackc-pgpassfile 1.0.0

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1.161 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.162 jackc-pgio 1.0.0

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1.163 jcmtturner-gofork 1.0.0

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

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1.165 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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1.166 modern-go-reflect2 1.0.1

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1.168 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.173 go-systemd 22.3.2

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1.176 zap 1.17.0

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1.178 xxhash 2.1.2

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1.179 prometheus-common 0.26.0

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1.180 x-text 0.3.7

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1.181 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.182 trylock 0.0.0-20191027065348-ff7e133a5c54

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1.183 urfave-cli 1.20.0

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- * /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidationFilter.java
- *
- * /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/util/SamlUtils.java
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- * /opt/cola/permits/1212966988_1633989798.74/0/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java

1.184 pretty 1.2.0

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1.185 charset-normalizer 2.0.7

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1.186 robot-telemetry_proto 0.0.0-20210520062046-a73bb180cba4

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

*/

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

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*/

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

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

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

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

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

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

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

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


level.

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

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

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

Scenario 2:

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

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

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

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

required

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

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

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

revision 2007-10-16 {

description

"Initial version of this MIB module.";

}

typedef BootImageLevel {

type binary {

length "0..255";

}

description

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

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

}

typedef LicenseNameList

{

type binary {

length "0..255";

}

description

"This textual convention is used to define the list of license names. If multiple licenses are present then this string will contain all the licenses separated by the ',' character.

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

}

```

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 I1, I2 and I3 in the ascending order of

    priority, then by default I1 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 Enterprise Specific MIB: License MIB
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--
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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
NOTIFICATION-TYPE
FROM SNMPv2-SMI
jnxLicenseMibRoot
FROM JUNIPER-SMI
DisplayString
FROM SNMPv2-TC;

```

jnxLicenseMIB    MODULE-IDENTITY
  LAST-UPDATED   "201007090000Z"
  ORGANIZATION   "Juniper Networks, Inc."
  CONTACT-INFO
    "Juniper Technical Assistance Center
    Juniper Networks, Inc.
    1194 N. Mathilda Avenue
    Sunnyvale, CA 94089
    E-mail: support@juniper.net"
  DESCRIPTION
    "Implementation of enterprise specific MIB
    for license commands and configuration."
  REVISION       "201007090000Z" -- Jul 09, 2010
  DESCRIPTION
    "Initial version."
    ::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }
jnxLicenseObjects       OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }
jnxLicenseSettings       OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

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

jnxLicenseInstallTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF JnxLicenseInstallEntry
  MAX-ACCESS   not-accessible
  STATUS      current
  DESCRIPTION  "This table contains installed feature license information."
  ::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE
  SYNTAX      JnxLicenseInstallEntry
  MAX-ACCESS   not-accessible
  STATUS      current
  DESCRIPTION  "A row of giving installed
  feature license information."
  INDEX       { IMPLIED jnxLicenseId }
  ::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {
  jnxLicenseId      DisplayString,
  jnxLicenseVersion INTEGER,
  jnxLicenseDeviceId DisplayString,

```

```
jnxLicenseType      INTEGER,  
jnxLicenseKeys     OCTET STRING  
}
```

jnxLicenseId OBJECT-TYPE

```
SYNTAX      DisplayString  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION "Installed feature licenses Id."  
::= { jnxLicenseInstallEntry 1 }
```

jnxLicenseVersion OBJECT-TYPE

```
SYNTAX      INTEGER  
MAX-ACCESS  read-only  
STATUS      current  
DESCRIPTION "License Version information"  
::= { jnxLicenseInstallEntry 2 }
```

jnxLicenseDeviceId OBJECT-TYPE

```
SYNTAX      DisplayString  
MAX-ACCESS  read-only  
STATUS      current  
DESCRIPTION "License Device Id "  
::= { jnxLicenseInstallEntry  
3 }
```

jnxLicenseType OBJECT-TYPE

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

jnxLicenseKeys OBJECT-TYPE

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

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE

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

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

JnxLicenseFeatureListEntry ::= SEQUENCE {
jnxLicenseFeatureId INTEGER,
jnxLicenseFeatureName DisplayString,
jnxLicenseFeatureDescr DisplayString,
jnxLicenseFeatureLicenseId DisplayString,
jnxLicenseFeatureLicenseUsed INTEGER,
jnxLicenseFeatureLicenseInstalled INTEGER,
jnxLicenseFeatureLicenseNeeded INTEGER
}

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

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

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

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

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

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

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

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

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

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

jnxLicenseAutoUpdate OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"License auto update URL of a license server."

::= { jnxLicenseSettings
3 }

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

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

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

::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

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

::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

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

feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

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

::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

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

::= { jnxLicenseNotifications 5 }

END

/*

* Generated by nsc --mib2yang-std

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

*/

/*

* This YANG module has been generated by smidump 0.5.0:

*

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

*

* Do not edit. Edit the source file instead!

*/

module CISCO-LICENSE-MGMT-MIB {

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

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

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

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

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

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

organization
"Cisco Systems Inc.";

contact

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

description

"The MIB module for managing licenses on the system.

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

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

UDI

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

NODE LOCKED LICENSE:

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

NON-NODE LOCKED LICENSE:

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

METERED LICENSE:

Metered

licenses are valid for limited period of time

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

EULA:

End User License Agreement.

EVALUATION LICENSE:

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

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

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

RIGHT TO USE (RTU) LICENSE:

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

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

EXTENSION LICENSE:

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

GRACE PERIOD LICENSE:

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

further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they

will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

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

UNCOUNTED LICENSE:

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

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

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

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

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

LICENSE LINE:

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

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable

part and it contains one or more license lines.

DEVICE CREDENTIALS:

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

REHOST:

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

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

PERMISSION TICKET:

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

REHOST TICKET:

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

LICENSING PORTAL:

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

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

STEPS TO INSTALL A LICENSE:

To install a license, the management application

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

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

ticket as proof of revocation to

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

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

action.

STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

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

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

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

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

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

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

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

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



```

}

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

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

typedef ClmgmtLicenseIndexOrZero {
  type uint32;
  description
    "This textual convention is an extension of the ClmgmtLicenseIndex
    convention.
    The latter defines a greater than zero value
    used to identify a license in the managed system. This
    extension permits the additional value of zero. The value
    zero is object-specific and must therefore be defined as
    part of the description of any object which uses this
    syntax. Examples of the usage of zero might include
    situations where license was not present or unknown.";
}

typedef ClmgmtLicenseTransferProtocol {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "local" {
      value "2";
    }
    enum "tftp" {
      value "3";
    }
    enum "ftp" {
      value "4";
    }
    enum "rcp" {

```

```

    value "5";
}
enum "http" {
    value "6";
}
enum "scp" {
    value "7";
}
enum "sftp" {
    value "8";
}
}
description
"The transfer protocol that should be used for copying files
when performing license management. When
the protocol is
set to local(2), local file system (flash or disk) is used.
Different agents may support different transfer protocols
and the management application is expected to some how determine
which protocol is supported and use.";
}

```

```

typedef ClmgmtLicenseActionState {

```

```

    type enumeration {
        enum "none" {
            value "1";
        }
        enum "pending" {
            value "2";
        }
        enum "InProgress" {
            value "3";
        }
        enum "successful" {
            value "4";
        }
        enum "partiallySuccessful" {
            value "5";
        }
        enum "failed" {
            value "6";
        }
    }
}

```

```

description

```

```

"The state of license action execution.

```

```

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

```

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

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

successful(4) - action has completed successfully.

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

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

```
typedef ClmgmtLicenseActionFailCause {  
  type enumeration {  
    enum "none" {  
      value "1";  
    }  
    enum "generalFailure" {  
      value "2";  
    }  
    enum "transferProtocolNotSupported" {  
      value  
"3";  
    }  
    enum "fileServerNotReachable" {  
      value "4";  
    }  
    enum "unrecognizedEntPhysicalIndex" {  
      value "5";  
    }  
    enum "invalidLicenseFilePath" {  
      value "6";  
    }  
    enum "invalidLicenseFile" {  
      value "7";  
    }  
    enum "invalidLicenseLine" {
```

```

    value "8";
}
enum "licenseAlreadyExists" {
    value "9";
}
enum "licenseNotValidForDevice" {
    value "10";
}
enum "invalidLicenseCount" {
    value "11";
}
enum "invalidLicensePeriod" {
    value "12";
}
enum "licenseInUse" {
    value "13";
}
enum "invalidLicenseStore" {
    value "14";
}
enum "licenseStorageFull" {
    value "15";
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket"
{
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}
enum "invalidLicenseEULAFile" {
    value "22";
}
}
description
"Reason for license action failure. Defines error codes for

```

all the license actions.

- none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.
- generalFailure(2) - General licensing failure. This will be used for resource unavailability failures.

Ex: Lack of memory.

- transferProtocolNotSupported(3) - protocol selected is not supported.
- fileServerNotReachable(4) - file server is not reachable.
- unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid
- invalidLicenseFilePath(6) - The license file path is not accessible.
- invalidLicenseFile(7) - Contents of license file are not valid.
- invalidLicenseLine(8) - License string in the license file is not valid.
- licenseAlreadyExists(9) - Management application is trying to install a license that already exists.
- licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.
- invalidLicenseCount(11) - Invalid count for this counted license.
- invalidLicensePeriod(12) - Validity period is invalid for this expiring license.
- licenseInUse(13) - License file is in use by a feature/image.
- invalidLicenseStore(14) - License store is not valid.
- licenseStorageFull(15) - There is no more space in the license storage.
- invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.
- invalidPermissionTicket(17) - The permission ticket file contents are not valid.
- invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.
- invalidRehostTicket(19) - The rehost ticket file contents

are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible.";

}

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

```
  container clmgmtLicenseConfiguration {  
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
```

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

```

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

  leaf clmgmtNextFreeDevCredExportActionIndex {
    type uint32;
    description
      "This object contains appropriate value for
      clmgmtDevCredExportActionIndex that can be used to create
      an entry in clmgmtDevCredExportActionTable. The management
      application should read this object first and then use this
      as the value for clmgmtDevCredExportActionIndex to avoid
      collisions when creating entries in
      clmgmtDevCredExportActionTable. Following this approach does
      not guarantee collision free row creation, but will reduce
      the probability. The collision will happen if two
      management applications read this object at the same time and
      attempt to create an entry
      with this value at the same time.
      In this case, the management application whose request is
      processed after the first request will get an error and the
      process of reading this object and entry creation needs to be
      repeated.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
  }
}

```

```

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

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

```

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
}

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

```

```

leaf clmgmtLicenseErrorNotifEnable {
  type boolean;
  description
  "This object indicates whether the device should generate
  notifications related to error conditions in enforcing
  licensing. This object enables/disables sending following
  notifications:
    clmgmtLicenseNotEnforced";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}

```

```

container clmgmtLicenseActionTable {
  description
  "A table for invoking license management actions. Management
  application must create a row in this table to trigger any of
  the license management actions. The following are different
  actions that can be executed using this table.
    1. install
    2. clear
    3. processPermissionTicket
    4. regenerateLastRehostTicket
    5. backup
    6. generateEULA

```

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

Once the request completes, the management

application should

retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

```
list clmgmtLicenseActionEntry {  
  key "clmgmtLicenseActionIndex";  
  description  
  "An entry for each action that is being executed or was  
  executed recently. The management application executes an  
  action  
  by creating this entry. This can be done in the following  
  2 methods
```

1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

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

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

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

from `clmgmtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgmtLicenseActionResultTable`.

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

1. Installing a license

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

- a. `clmgmtLicenseActionTransferProtocol`

- b. `clmgmtLicenseServerAddressType`
 - c. `clmgmtLicenseServerAddress`
 - d. `clmgmtLicenseServerUsername`
 - e. `clmgmtLicenseServerPassword`
 - f. `clmgmtLicenseFile`
 - g. `clmgmtLicenseStore`
 - h. `clmgmtLicenseStopOnFailure`
 - i. `clmgmtLicenseAcceptEULA`
 - j. `clmgmtLicenseAction`

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

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

2. Clearing a license

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

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

3. Revoking a license

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

- a. `clmgmtLicenseActionTransferProtocol`

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

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

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

5. Save all licenses to a backup storage

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

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

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

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

The following MIB objects need to be set exporting required EULAs

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

h. clmgmtLicenseAction

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

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

Entry can be deleted

except when clmgmtLicenseAction is set

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

leaf clmgmtLicenseActionIndex {

type uint32 {

range "1..4294967295";

}

description

"This object uniquely identifies a row in clmgmtLicenseActionTable. The management application should choose this value by reading clmgmtNextFreeLicenseActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeLicenseActionIndex again and retry with the new value for this object.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";

}

leaf clmgmtLicenseActionEntPhysicalIndex

{

type entity-mib:PhysicalIndexOrZero;

description

"This object represents the entPhysicalIndex of the device where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples include stackable switches, devices with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device";

smiv2:defval "0";

smiv2:max-access "read-write";

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

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

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

```

```

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

```

```

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

```

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

```

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

```

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}

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

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

leaf clmgmtLicenseFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents the location of the license file
on the server identified by clmgmtLicenseServerAddress. This
object MUST be set to a valid value before or concurrently
with setting the value of the clmgmtLicenseAction object to
install(2). For other operations, the value of this

```

```
    object is not considered, it is irrelevant.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}
```

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

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

```
leaf clmgmtLicensePermissionTicketFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object indicates the file name of the permission
        ticket. This object need to be set only if
        clmgmtLicenseAction is set to processPermissionTicket(4)
        or regenerateLastRehostTicket(5) actions. The permission
        ticket is obtained from Cisco licensing portal to revoke
```

```

    a license. The management application must set this object
    to valid value before invoking the action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

```

```

leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where the rehost ticket
    generated by the device need to be exported to. The rehost
    ticket is generated as a result of processPermissionTicket
    and regenerateLastRehostTicket actions. After generating
    the rehost ticket, the device exports the rehost ticket
    contents to this file. This object need to be set only
    if clmgmtLicenseAction is set to processPermissionTicket(4)
    or regenerateLastRehostTicket(5) actions.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

```

```

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

```

```

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
    stop if the action on a license fails. This object is
    applicable only if there are more than one licenses

```



```

    involved in an action.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

```

```

leaf clmgmtLicenseAction {

```

```

    type enumeration {
        enum "noOp" {

```

```

value "1";

```

```

}

```

```

    enum "install" {

```

```

        value "2";

```

```

    }

```

```

    enum "clear" {

```

```

        value "3";

```

```

    }

```

```

    enum "processPermissionTicket" {

```

```

        value "4";

```

```

    }

```

```

    enum "regenerateLastRehostTicket" {

```

```

        value "5";

```

```

    }

```

```

    enum "backup" {

```

```

        value "6";

```

```

    }

```

```

    enum "generateEULA" {

```

```

        value "7";

```

```

    }

```

```

}

```

```

description

```

```

"This object indicates the the command/action to be executed.

```

```

Command

```

```

Remarks

```

```

-----

```

```

-----

```

```

noOp(1)

```

```

        No operation will be
        performed.

```

```

install(2)

```

```

        Installs the license.

```

```

clear(3)

```

```

        Clears the license.

```

```

        processPermissionTicket(4)

```

```

Processes thee permission

```

```

        ticket and generates and
        exports rehost ticket.

```

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

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

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

```
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}
```

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

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

```
leaf clmgmtLicenseStatus {
  type enumeration {
    enum "inactive" {
      value "1";
    }
    enum "notInUse" {
      value "2";
    }
    enum "inUse" {
      value "3";
    }
    enum "expiredInUse" {
      value "4";
    }
    enum "expiredNotInUse" {
      value "5";
    }
    enum "usageCountConsumed" {
      value "6";
    }
  }
  description
    "This object represents status of the license.

    inactive(1)      - license is installed, but
```

```

        not active.
    notInUse(2)    - license is installed and
                  available for use.
    inUse(3)      - the license is being used (by
                  a feature).
    expiredInUse(4)
- license is expired but still
                  being held by the feature.
    expiredNotInUse(5) - license is expired and not being
                  held by any feature.
    usageCountConsumed(6) - number of entities using this
                  licenses has reached the allowed
                  limit, no new entities are allowed
                  to use this license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

```

```

leaf clmgmtLicenseStartDate {
    type snmpv2-tc:DateAndTime;
    description
    "This object indicates the start date for a subscription
    license. It is optional for subscription licenses to have a
    start date associated with them, they may only have an end
    date associated with them. This object may be applicable only

```

```

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

```

```

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

```

```

leaf clmgmtLicensePeriodUsed {
    type uint32;

```

```

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

```

```

container clmgmtLicensableFeatureTable {
description
"This table contains list of licensable features in the
image. All the licensable features will have an entry each
in this table irrespective of whether they are using any
licenses currently. Entries in this table are created by
the agent one for each licensable feature in the image.
These entries remain in the table permanently and can not
be deleted. Management application can not create or delete
entries from this table.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

```

```

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

```

```

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

```

```

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

```

```

}

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

leaf clmgmtFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..32";
  }
  description
  "This object indicates the version of the licensable
  feature in the device. Examples of feature versions
  are: '1.0' or '2.0'";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

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

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

leaf clmgmtFeatureWhatIsCounted {

```



```

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

```

```

leaf clmgmtFeatureStartDate {

```

```

  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license start date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid start date. The start date will
    be the earliest of the valid start dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

```

```

leaf clmgmtFeatureEndDate {

```

```

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

```

```

leaf clmgmtFeaturePeriodUsed {

```

```

  type uint32;
  units "seconds";
  description
    "This object indicates the license period used for the feature.";

```

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

```

```

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

```

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

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```

```

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

```

1. CREATE-AND-GO method

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

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

2. CREATE-AND-WAIT method

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

To stop the action from being executed, the management application

can delete the entry by setting `clmgmtDevCredExportActionStatus` to `destroy(6)` when `clmgmtDevCredCommandState` is `pending(2)`.

The status of action execution can be known by querying

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

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

`smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1"`;

```
leaf clmgmtDevCredExportActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
  "This object uniquely identifies a row in
  clmgmtDevCredExportActionTable. The management application
  chooses this value by reading
  clmgmtNextFreeDevCredExportActionIndex while creating an
  entry in this table.
```

If an entry already exists with this

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

`smiv2:max-access "not-accessible"`;

`smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1"`;

```
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
```

```
  type entity-mib:PhysicalIndexOrZero;
```

```
  description
```

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

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

```

smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

leaf clmgmtDevCredTransferProtocol {
type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
description
"This object indicates the transfer protocol to be used when
copying files as specified in the following objects.
1. clmgmtDevCredExportFile
.";
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

leaf clmgmtDevCredServerAddressType {
type inet-address:InetAddressType;
description
"This object indicates the transport type of the
address contained in clmgmtDevCredServerAddress object.
This must be set when clmgmtDevCredTransferProtocol
is not none(1) or local(2).";
smiv2:defval "unknown";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

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

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

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

leaf clmgmtDevCredServerUsername {
type snmp-framework:SnmpAdminString {

```

```
length "0..96";  
}
```

description

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

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

description

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

```
--
```


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--

-- *****

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

IMPORTS

OBJECT-TYPE,

MODULE-IDENTITY,

Unsigned32,

NOTIFICATION-TYPE

FROM SNMPv2-SMI

MODULE-COMPLIANCE,

OBJECT-GROUP,

NOTIFICATION-GROUP

FROM SNMPv2-CONF

TEXTUAL-CONVENTION,

TruthValue

FROM SNMPv2-TC

SnmpAdminString

FROM SNMP-FRAMEWORK-MIB

entPhysicalIndex

FROM ENTITY-MIB

ciscoMgmt

FROM CISCO-SMI;

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "200710160000Z"

ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems

Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

DESCRIPTION

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

This mechanism is referred to as image level licensing.

Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

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

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.
- No upgrades available for advservices license.

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

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

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

The CISCO-LICENSE-MGMT-MIB module should be used to export

the EULA and to configure the required license.

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

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

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

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

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

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

LicenseNameList ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

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

If multiple licenses

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

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

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

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

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

INDEX {
 entPhysicalIndex,
 cilmModuleName
}

::= { cilmBootImageLevelTable 1 }

CilmBootImageLevelEntry ::= SEQUENCE {

 cilmModuleName SnmpAdminString,

 cilmCurrentImageLevel

 BootImageLevel,

 cilmConfiguredBootImageLevel BootImageLevel,

 cilmNextBootImageLevel BootImageLevel,

 cilmCurrentLicenseStoreIndex Unsigned32,

 cilmCurrentLicenseIndex Unsigned32,

 cilmNextBootLicenseStoreIndex Unsigned32,

```
    cilmNextBootLicenseIndex    Unsigned32
}
```

cilmModuleName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object is used as one of the two indices in
cilmBootImageLevelTable. This object indicates the module
name of the software package. There can be multiple
modules in an image performing specific functionality.
For example, in a wireless image there can be two modules
- a base image module and a wireless module."

::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

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

::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

image level is determined based
on the availability of required license."
::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and

uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

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

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"An entry in the table containing the following information.
- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

INDEX {
entPhysicalIndex,
cilmModuleName,
cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

```
CilmImageLevelToLicenseMapEntry ::= SEQUENCE {
    cilmImageLicenseMapIndex Unsigned32,
    cilmImageLicenseImageLevel BootImageLevel,
    cilmImageLicenseName LicenseNameList,
    cilmImageLicensePriority Unsigned32
}
```

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level

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

```
::= { cilmImageLevelToLicenseMapEntry 4 }
```

```
-- Global Objects
```

```
cilmEULAAccepted OBJECT-TYPE
```

```
SYNTAX      TruthValue
```

```
MAX-ACCESS  read-write
```

```
STATUS      current
```

```
DESCRIPTION
```

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

```
DEFVAL      { false }
```

```
::= { ciscoImageLicenseMgmtMIBObjects 3 }
```

```
-- Notification control
```

```
cilmNotifCntl OBJECT IDENTIFIER
```

```
::= { ciscoImageLicenseMgmtMIBObjects 4 }
```

```
cilmImageLevelChangedNotif OBJECT-TYPE
```

```
SYNTAX      TruthValue
```

```
MAX-ACCESS  read-write
```

```
STATUS      current
```

```
DESCRIPTION
```

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

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

notification to be delivered."

REFERENCE

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

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {
 cilmCurrentImageLevel,
 cilmConfiguredBootImageLevel
}

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 2 }

cilmModuleCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance statement for Cisco Image level license mgmt MIB."

MODULE -- this module

MANDATORY-GROUPS {
 cilmAdminGroup,
 cilmNotifGroup
}

GROUP cilmOperGroup

DESCRIPTION

"This group is mandatory for all devices where multiple license are supported."

::= { cilmModuleCompliances 1 }

-- Units of Conformance

```

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

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

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

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

```

-- *****

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

IMPORTS

OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
 FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
 FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue,
RowStatus,
StorageType,
DateAndTime
 FROM SNMPv2-TC
SnmAdminString
 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 "20081121000Z"

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 "20061003000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.
It is not necessary to have values assigned contiguously.
The value for each license must remain constant
at least from one re-initialization of the entity's
network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex
convention. The latter defines a greater than zero value
used to identify a license in the managed system.

This

extension permits the additional value of zero. The value
zero is object-specific and must therefore be defined as
part of the description of any object which uses this
syntax. Examples of the usage of zero might include
situations where license was not present or unknown."

SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files
when performing license management. When the protocol is
set to local(2), local file system (flash or disk) is used.
Different agents may support different transfer protocols
and the management application is expected to some how determine
which protocol is supported and use."

SYNTAX INTEGER {

none(1),

local(2),

tftp(3),

ftp(4),

```
    rcp(5),
    http(6),
    scp(7),
    sftp(8)
}
```

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

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

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

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

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB

objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

SYNTAX INTEGER {

```
    none(1),
    pending(2),
    inProgress(3),
    successful(4),
    partiallySuccessful(5),
    failed(6)
}
```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

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

generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

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

invalidLicenseFile(7) - Contents of license file are not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents

are not valid.
invalidLicenseBackupFile(20) - License backup store path
is not accessible.
licenseClearInProgress(21) - When license clear action is
in progress, license backup
action is not permitted to
avoid race conditions. This

error code is sent back in
response to a license backup
action when a license clear
action is in progress or in
pending state. Try again in few
seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

```
SYNTAX    INTEGER {  
    none(1),  
    generalFailure(2),  
    transferProtocolNotSupported(3),  
    fileServerNotReachable(4),  
    unrecognizedEntPhysicalIndex(5),  
    invalidLicenseFilePath(6),  
    invalidLicenseFile(7),  
    invalidLicenseLine(8),  
    licenseAlreadyExists(9),  
    licenseNotValidForDevice(10),  
    invalidLicenseCount(11),  
  
    invalidLicensePeriod(12),  
    licenseInUse(13),  
    invalidLicenseStore(14),  
    licenseStorageFull(15),  
    invalidPermissionTicketFile(16),  
    invalidPermissionTicket(17),  
    invalidRehostTicketFile(18),  
    invalidRehostTicket(19),  
    invalidLicenseBackupFile(20),  
    licenseClearInProgress(21),  
    invalidLicenseEULAFile(22)  
}
```

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for
clmgmtLicenseActionIndex that can be used to create

an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated."

```
::= { clmgmtLicenseConfiguration 1 }
```

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of

the license management actions. The following are different actions that can be executed using this table.

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

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

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

```
::= { clmgmtLicenseConfiguration 2 }
```

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

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

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

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

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

1. Installing a license

The following MIB objects need to be set for installing a

license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseStore
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAcceptEULA
- j. clmgmtLicenseAction

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

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

2. Clearing a license

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

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

3. Revoking a license

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

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

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating

last rehost ticket

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

5. Save all licenses to a backup storage

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

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

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

The following MIB objects need to be set exporting required EULAs

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

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

- a. clmgmtLicenseServerAddressType

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

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX      { clmgmtLicenseActionIndex }
::= { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex      Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType InetAddressType,
    clmgmtLicenseServerAddress    InetAddress,
    clmgmtLicenseServerUsername   SnmpAdminString,
    clmgmtLicenseServerPassword   SnmpAdminString,
    clmgmtLicenseFile             SnmpAdminString,
    clmgmtLicenseStore            Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile    SnmpAdminString,
    clmgmtLicenseBackupFile          SnmpAdminString,
    clmgmtLicenseStopOnFailure       TruthValue,
    clmgmtLicenseAction              INTEGER,
    clmgmtLicenseActionState         ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition        Unsigned32,
    clmgmtLicenseActionFailCause     ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType   StorageType,
    clmgmtLicenseActionRowStatus     RowStatus,
    clmgmtLicenseAcceptEULA         TruthValue,
    clmgmtLicenseEULAFile           SnmpAdminString
}
```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

```
::= { clmgmtLicenseActionEntry 1 }
```

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples

include stackable switches, devices

with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object.

This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

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

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."
DEFVAL { "" }
::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }
::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }
::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))
MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object

to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should

stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
install(2),
clear(3),
processPermissionTicket(4),
regenerateLastRehostTicket(5),
backup(6),
generateEULA(7)
}

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission ticket and generates and exports rehost ticket.
regenerateLastRehostTicket(5)	Generates and exports the last generated rehost ticket.
backup(6)	Backs up all the licenses installed currently onto a backup store.
generateEULA(7)	Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file."

DEFVAL { noOp }
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management

application can make

intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }
::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries

will be aged out, but an

entry will never be deleted within 5 minutes of completion"

::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

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

DEFVAL { false }
::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This object indicates the file where all the End User License

Agreements (EULAs) need to be exported to. This object need to be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

```
DEFVAL      { "" }  
::= { clmgmtLicenseActionEntry 22 }
```

-- License action results table.

```
clmgmtLicenseActionResultTable OBJECT-TYPE  
SYNTAX      SEQUENCE OF ClmgmtLicenseActionResultEntry  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
    "This table contains results of license action if the  
    license action involves multiple licenses. Entries in this  
    table are not created for actions where there is  
    only license that is subject of the action. For  
    example, if there are 3 licenses in a license file  
    when executing license install action, 3 entries will  
    be created in this table, one for each license."  
::= { clmgmtLicenseConfiguration 3 }
```

```
clmgmtLicenseActionResultEntry OBJECT-TYPE  
SYNTAX      ClmgmtLicenseActionResultEntry  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
    "An entry in clmgmtLicenseActionResultTable. Each entry  
    contains result of the action for a single license.  
    These entries are created immediately after action  
    execution when the action involves multiple licenses.  
    These entries get automatically deleted when the  
    corresponding entry in clmgmtLicenseActionTable  
    is deleted."  
INDEX       {  
            clmgmtLicenseActionIndex,  
            clmgmtLicenseNumber  
            }  
::= { clmgmtLicenseActionResultTable 1 }
```

```
ClmgmtLicenseActionResultEntry ::= SEQUENCE {  
    clmgmtLicenseNumber      Unsigned32,  
    clmgmtLicenseIndivActionState ClmgmtLicenseActionState,  
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
```

}

clmgmtLicenseNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates the sequence number of this license in the list of licenses on which the action is executed. For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file."

::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of action on this individual license."

::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for action failure on this individual license"

::= { clmgmtLicenseActionResultEntry 3 }

-- License Store Info Table

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 accepted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments
about the license. This object is initially populated
with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

inactive(1),

notInUse(2),

inUse(3),

expiredInUse(4),

expiredNotInUse(5),

usageCountConsumed(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

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

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

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

expiredInUse(4) - license is expired but still
being held by the feature.

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

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

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object

indicates the start date for a subscription

license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license.

This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry

16 }

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the

Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

INDEX {
 entPhysicalIndex,
 clmgmtFeatureIndex
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

 clmgmtFeatureIndex Unsigned32,
 clmgmtFeatureName SnmpAdminString,
 clmgmtFeatureVersion SnmpAdminString,
 clmgmtFeatureValidityPeriodRemaining Unsigned32,
 clmgmtFeatureWhatIsCounted SnmpAdminString,
 clmgmtFeatureStartDate DateAndTime,
 clmgmtFeatureEndDate DateAndTime,
 clmgmtFeaturePeriodUsed Unsigned32

}

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in

the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples of feature versions are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

will get an error and the

process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

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

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

1. CREATE-AND-GO method

Management application sets `clmgtDevCredExportActionStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

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

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

The status of action execution can be known by querying `clmgtDevCredCommandState`. If the action is still in `pending(2)` or `inProgress(3)`, the management application need to check back again after few seconds. Once the action completes and if status of the action is `failed(6)`, the reason for failure can

be retrieved from `clmgtDevCredCommandFailCause`.

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

INDEX { `clmgtDevCredExportActionIndex` }
 ::= { `clmgtDevCredExportActionTable 1` }

`ClmgtDevCredExportActionEntry ::= SEQUENCE {`
 `clmgtDevCredExportActionIndex Unsigned32,`
 `clmgtDevCredEntPhysicalIndex PhysicalIndexOrZero,`
 `clmgtDevCredTransferProtocol ClmgtLicenseTransferProtocol,`
 `clmgtDevCredServerAddressType InetAddressType,`
 `clmgtDevCredServerAddress 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

1.187 prometheus-procfs 0.7.3

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

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1.188 cffi 1.15.0

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1.189 globalsign-mgo 0.0.0-20181015135952-eeefdecbb41b8

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1.190 mgo 0.0.0-20181015135952- eeefdec b41b8

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1.191 urllib3 1.26.6-1.ph1

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1.192 profile 1.6.0

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1.193 golang-snappy 0.0.4

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1.194 pierrec-lz4 2.6.1+incompatible

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1.195 logfmt 0.5.0

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1.196 lumberjack 2.0.0

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1.197 nkeys 0.3.0

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1.207 protobuf 1.27.1

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1.209 gjson 1.11.0

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include/bsd/err.h

include/bsd/stdlib.h

include/bsd/sys/param.h

include/bsd/unistd.h

src/bsd_getopt.c

src/err.c

src/fgetln.c

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include/bsd/sys/queue.h

include/bsd/sys/time.h

include/bsd/timeconv.h

include/bsd/vis.h

man/bitstring.3bsd

man/errc.3bsd

man/explicit_bzero.3bsd

man/fgetln.3bsd

man/fgetwln.3bsd

man/fpurge.3bsd

man/funopen.3bsd

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man/reallocarray.3bsd

man/reallocf.3bsd

man/setmode.3bsd

man/strmode.3bsd

man/strnstr.3bsd

man/strtoi.3bsd

man/strtou.3bsd

man/unvis.3bsd

man/vis.3bsd

man/wcsncpy.3bsd

src/getbsize.c

src/heapsort.c

src/merge.c

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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
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man/flopen.3bsd

man/getpeereid.3bsd

man/pidfile.3bsd

src/expand_number.c

src/hash/sha512.h

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random_linux.h

src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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1.212 protobuf 3.19.1

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1.213 grpc-go 1.42.0

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1.214 libffi 3.4.2-r1

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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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

That's all there is to it!

1.218 libssh 0.9.3 2ubuntu2.2

1.218.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: libssh

Upstream-Contact: libssh@libssh.org

Andreas Schneider <asn@cryptomilk.org>

Source: <https://git.libssh.org/projects/libssh.git>

Files: *

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Comment:

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Files: include/libssh/auth.h
include/libssh/bignum.h
include/libssh/bind.h
include/libssh/buffer.h
include/libssh/channels.h
include/libssh/crc32.h
include/libssh/crypto.h
include/libssh/dh.h
include/libssh/ecdh.h
include/libssh/ed25519.h
include/libssh/gssapi.h
include/libssh/kex.h
include/libssh/keys.h

include/libssh/legacy.h
include/libssh/libcrypto.h
include/libssh/libcrypt.h
include/libssh/libssh.h
include/libssh/libsshpp.hpp
include/libssh/messages.h
include/libssh/misc.h
include/libssh/packet.h

include/libssh/pcap.h
include/libssh/pki.h
include/libssh/pki_priv.h
include/libssh/poll.h
include/libssh/priv.h
include/libssh/scp.h
include/libssh/server.h
include/libssh/session.h
include/libssh/sftp.h
include/libssh/socket.h
include/libssh/string.h
include/libssh/threads.h
include/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
src/kex.c
src/kex1.c
src/legacy.c
src/libcrypto.c
src/libgcrypt.c
src/log.c
src/messages.c
src/packet.c
src/packet1.c
src/packet_cb.c
src/packet_crypt.c
src/pcap.c
src/pki_container_openssh.c
src/pki_ed25519.c

src/server.c
src/session.c
src/sftpserver.c
src/socket.c
src/string.c
src/threads.c
src/threads/pthread.c
src/wrapper.c
tests/benchmarks/bench_raw.c
tests/benchmarks/bench_scp.c
tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
tests/test_pcap.c
tests/test_socket.c

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Files: examples/exec.c
examples/senddata.c
examples/CMakeLists.txt
include/libssh/ssh1.h
include/libssh/ssh2.h
tests/authentication.c
tests/benchmarks/bench1.sh
tests/benchmarks/bench2.sh
tests/chmodtest.c
tests/client/torture_proxycommand.c
tests/client/torture_sftp_dir.c
tests/client/torture_sftp_read.c
tests/cmdline.c
tests/connection.c
tests/generate.py
tests/sftp_stress/main.c
tests/test_exec.c
tests/test_ssh_bind_accept_fd.c
tests/test_tunnel.c
tests/tests.h
tests/unittests/torture_buffer.c
tests/unittests/torture_callbacks.c
tests/unittests/torture_channel.c
tests/unittests/torture_init.c

tests/unittests/torture_isipaddr.c
tests/unittests/torture_keyfiles.c
tests/unittests/torture_list.c
tests/unittests/torture_misc.c
tests/unittests/torture_options.c
tests/unittests/torture_pki.c
tests/unittests/torture_rand.c

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Files: examples/authentication.c

examples/connect_ssh.c
examples/examples_common.h
examples/knownhosts.c
examples/libssh_scp.c
examples/libsshpp.cpp
examples/libsshpp_noexcept.cpp
examples/proxy.c
examples/sample.c
examples/samplesftp.c
examples/samplesshd-cb.c
examples/samplesshd-kbdint.c
examples/scp_download.c
examples/sshnetcat.c

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Files: src/external/curve25519_ref.c

src/external/ed25519.c
src/external/fe25519.c
src/external/ge25519.c
src/external/ge25519_base.data
src/external/sc25519.c

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Files: tests/pkd/pkd_client.h

tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
tests/pkd/pkd_hello.c
tests/pkd/pkd_keyutil.c

tests/pkd/pkd_keyutil.h

tests/pkd/pkd_util.c

tests/pkd/pkd_util.h

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Files: src/channels.c

src/channels1.c

src/gzip.c

src/known_hosts.c

src/misc.c

src/options.c

src/pki.c

src/pki_crypto.c

src/pki_gcrypt.c

src/sftp.c

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Files: include/libssh/agent.h

include/libssh/options.h

src/agent.c

src/callbacks.c

src/config.c

tests/client/torture_forward.c

tests/client/torture_request_env.c

tests/torture.c

tests/torture.c

tests/torture.h

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Files: include/libssh/curve25519.h

src/curve25519.c

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Files: include/libssh/callbacks.h

src/scp.c

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Files: src/match.c

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Files: include/libssh/knownhosts.h

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Dmitriy Kuznetsov <dk@yandex.ru>

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Files: cmake/Modules/DefineCMakeDefaults.cmake

cmake/Modules/DefineCompilerFlags.cmake

cmake/Modules/DefineInstallationPaths.cmake

cmake/Modules/DefinePlatformDefaults.cmake

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Files: cmake/Modules/AddCMockaTest.cmake
cmake/Modules/CheckCCompilerFlagSSP.cmake
cmake/Modules/FindArgp.cmake
cmake/Modules/FindCMocka.cmake
cmake/Modules/FindGCrypt.cmake
cmake/Modules/FindGSSAPI.cmake
cmake/Modules/FindNaCl.cmake
cmake/Modules/FindNSIS.cmake
cmake/Modules/MacroEnsureOutOfSourceBuild.cmake
cmake/Modules/UseDoxygen.cmake

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2006-2007 Wengo
2007, Daniel Gollub
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Files: debian/*

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1.219 netcat-openbsd 1.206 1ubuntu1

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1.220 alpine-keys 2.4-r1

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1.221 six 1.14.0

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1.223 pyrsistent 0.18.0

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1.224 python 3.8.2-0ubuntu2

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwil.nl> and others.

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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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
2.2	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
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

Footnotes:

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

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1.225 python-pip 20.0.2-5ubuntu1.6

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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.

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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1.226 libseccomp 2.5.1-1ubuntu1~20.04.2

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1.227 antchfx-xpath 1.2.0

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1.228 jackc-pgtype 1.9.1

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

That's all there is to it!

1.232 lib-pq 1.10.4

1.232.1 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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```

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1.233 ansible 2.1

1.233.1 Available under license :

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

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

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Version 3, 29 June 2007

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The

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1.234 popt 1.16-14

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1.235 jackc-pgproto 2.2.0

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1.236 base-files 11ubuntu5.5

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inline

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```
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```

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```
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```

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

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1.237 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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1.238 go-engine-io 0.0.0-20200527182501-e01fec600c76

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1.239 etcd-client 3.5.2

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1.241 etcd 3.5.2

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1.242 markupsafe 2.1.1

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Metadata-Version: 2.1

Name: MarkupSafe

Version: 2.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Donate, <https://palletsprojects.com/donate>
Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
License-File: LICENSE.rst

MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

Install and update using `pip`_``:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. `_pip`: <https://pip.pypa.io/en/stable/getting-started/>

Examples

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape

>>> # escape replaces special characters and wraps in Markup
>>> escape("<script>alert(document.cookie);</script>")
Markup('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')

>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup("<strong>Hello</strong>")
Markup('<strong>hello</strong>')

>>> escape(Markup("<strong>Hello</strong>"))
Markup('<strong>hello</strong>')

>>> # Markup is a str subclass
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>{ name }</em>")
>>> template.format(name="World")
Markup('Hello <em>&#34;World&#34;</em>')
```

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The Pallets organization develops and supports MarkupSafe and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

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Links

- Documentation: <https://markupsafe.palletsprojects.com/>
- Changes: <https://markupsafe.palletsprojects.com/changes/>
-
- PyPI Releases: <https://pypi.org/project/MarkupSafe/>
- Source Code: <https://github.com/pallets/markupsafe/>
- Issue Tracker: <https://github.com/pallets/markupsafe/issues/>
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[metadata]

name = MarkupSafe

version = attr: markupsafe.__version__

url = <https://palletsprojects.com/p/markupsafe/>

project_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://markupsafe.palletsprojects.com/>

Changes = <https://markupsafe.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/markupsafe/>

Issue Tracker = <https://github.com/pallets/markupsafe/issues/>

Twitter = <https://twitter.com/PalletsTeam>

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license = BSD-3-Clause

license_files = LICENSE.rst

author = Armin Ronacher

author_email = armin.ronacher@active-4.com

maintainer = Pallets

maintainer_email = contact@palletsprojects.com

description = Safely add untrusted strings to HTML/XML markup.

long_description = file: README.rst

long_description_content_type = text/x-rst

classifiers =

Development Status :: 5 - Production/Stable

Environment :: Web Environment

Intended Audience ::

Developers

License :: OSI Approved :: BSD License

Operating System :: OS Independent

Programming Language :: Python

Topic :: Internet :: WWW/HTTP :: Dynamic Content

Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:

package_dir = = src

include_package_data = True

python_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests

filterwarnings =

error

[coverage:run]

branch = True

source =

markupsafe

tests

[coverage:paths]

source =

src

*/site-packages

[flake8]

select = B, E, F, W, B9, ISC

ignore =

E203

E501

E722

W503

max-line-length = 80

[mypy]

files = src/markupsafe

python_version = 3.7

show_error_codes = True

disallow_subclassing_any = True

disallow_untyped_calls = True

disallow_untyped_defs = True

disallow_incomplete_defs = True

no_implicit_optional = True

local_partial_types = True

no_implicit_reexport = True

strict_equality = True

warn_redundant_casts = True

warn_unused_configs = True

warn_unused_ignores = True

warn_return_any

= True

warn_unreachable = True

[egg_info]

tag_build =

tag_date = 0

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1.243 antchfx-xmlquery 1.3.9

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1.244 perl 5.30.0 9ubuntu0.2

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*
*/
# To give due honour to those who have made Perl 5 what it is today,
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# (hopefully) current and preferred email addresses from the commits.
# These people have either submitted patches or suggestions, or their bug
# reports or comments have inspired the appropriate patches. Corrections,
# additions, deletions welcome; send them to perlbug@perl.org, preferably
# as the output of diff(1), diff -u or diff -c between the original and a
# corrected version of this file.
#
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# is strictly forbidden. (Passive distribution with the Perl source
```

```
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#
# After editing, please run: make test_porting
--
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Aaron B. Dossett <aaron@iglou.com>
Aaron Crane <arc@cpan.org>
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J. Mackey <ajm6q@virginia.edu>
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```

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

```
Gnomovision version 69, Copyright (C) 19xx 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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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 a sample; alter the names:

```
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
```

That's all there is to it!

The "Artistic License"

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The End

1.245 python-setuptools 45.2.0 1

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1				
	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

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J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000

Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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

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DRuntime: Runtime Library for the D Programming Language

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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++. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files
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Version 3.1, 31 March 2009

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit __float128 are

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ldexpq.c:

- * Conversion to long double by Ulrich Drepper,
- * Cygnus Support, drepper@cygnus.com.

cosq_kernel.c, expq.c, sincos_table.c, sincosq.c, sincosq_kernel.c,
sinq_kernel.c, truncq.c:

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isinfq.c:

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log10q.c:

Cephes Math Library Release 2.2: January, 1991

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Adapted for glibc November, 2001

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gcc/go/gofrontend,
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D:

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

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:

- d/dmd/*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:

- d/phobos/*

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./gm2-libs/SYSTEM.def:

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./gm2-libs/Indexing.def:

./gm2-libs/Builtins.mod:

./gm2-libs/SFIO.mod:

./gm2-libs/MathLib0.mod:

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* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022

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/* Miniature re-implementation of the "check" library.

This is intended to support just enough of check to run the Expat tests. This interface is based entirely on the portion of the check library being used.

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```


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|_| XML parser

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<signature of Ty Coon>, 1 April 1989
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Ty Coon, President of Vice
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Version 3, 29 June 2007

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1.259 py3-contextlib 21.6.0-r2

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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes

3.1.4	3.1.3	2011		
PSF	yes			
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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1.260 py3-retrying 1.3.3-r3

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1.261 nghttp2 1.47.0-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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1.262 py3-appdirs 1.4.4-r3

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1.263 gdbm 1.23-r0

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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

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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
2.2 and above	2.1.1	2001-now	PSF	yes

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1.266 musl 1.2.3-r0

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1.267 python-setuptools 44.0.0

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1.268 pcre 8.39-12build1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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1.269 klauspost-compress 1.15.0

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1.272 jackc-pgconn 1.9.1-0.20210724152538-d89c8390a530

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1.276 jackc-pgx 4.12.1-0.20210724153913-640aa07df17c

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1.277 libnsl 2.31

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1.285 pycparser 2.20

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perks - a fork of <https://github.com/bmizerany/perks>

<https://github.com/beorn7/perks>

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See <https://github.com/beorn7/perks/blob/master/README.md> for license details.

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

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

https://github.com/mattproud/golang_protobuf_extensions

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1.288 golang-lru 0.5.4

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1.289 goprotobuf 1.5.2

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1.291 logrus 1.8.1

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1.292 go-resiliency 1.2.0

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1.301 open-ldap 2.4.49+dfsg-2ubuntu1.9

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1.304 apk-tools 2.12.9-r3

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1.306 py3-pep 0.12.0-r2

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src/md2.c

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man/sha1.3

man/sha2.3

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man/mdX.3

src/helper.c

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src/md4.c

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src/sha1.c

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1.312 py3-tomli 2.0.1-r1

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include/bsd/stdlib.h
include/bsd/sys/param.h
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src/bsd_getopt.c
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include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/pwcache.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd

man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
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man/fmtcheck.3bsd

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man/readpassphrase.3bsd
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src/arc4random.c
src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
src/readpassphrase.c
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1.315 gettext 0.21-r2

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

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

@smallexample

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

Copyright (C) @var{yyyy} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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@end smallexample

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:

@smallexample

Gnomovision version

69, Copyright (C) @var{year} @var{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.

@end smallexample

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `@samp{show w}` and `@samp{show c}`; they could even be mouse-clicks or menu items---whatever suits your program.

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:

@example

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

Ty Coon, President of Vice

@end example

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The following parts are under the LGPL, see file intl/COPYING.LIB:

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:

- the `_programs_` gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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

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

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

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threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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

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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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1.316 etcd 3.5.4

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1.317 wget 1.21.3-r0

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1.318 prometheus-client 1.11.1

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

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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
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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
2.7	2.6	2010	PSF	yes

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

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

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	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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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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1.321 keyutils 1.6-6ubuntu1.1

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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the Free Software Foundation; either  
version 2 of the License, or  
(at your option) any later version.
```

```
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```
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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)

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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
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e) Verify that the user has already received a copy of these
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This is the Debian package for libsepol, and it is built from sources obtained from <http://userspace.selinuxproject.org/releases/current/devel/>

This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

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Manoj Srivastava
<srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.328 xz 5.2.4 1ubuntu1.1

1.328.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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Files: src/liblzma/check/crc32_table_?e.h

src/liblzma/check/crc64_table_?e.h

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changelog.gz (commit 975d8fd) explains:

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

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dos/config.h was generated with autoheader, which tells Autoconf to
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Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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```
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```

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1.329 bash 5.0 6ubuntu1.2

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1.331 busybox 1.35.0-r17

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1.332 shadow 4.10-r3

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=====

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

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

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

All

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now	PSF	yes

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The End

1.336 openssl 1.1.1q-r0

1.336.1 Available under license :

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Description: Bindings to OpenSSL libssl and libcrypto, plus custom SSH pubkey parsers. Supports RSA, DSA and EC curves P-256, P-384 and P-521. Cryptographic signatures can either be created and verified manually or via x509 certificates. AES can be used in cbc, ctr or gcm mode for symmetric encryption; RSA for asymmetric (public key) encryption or EC for Diffie Hellman. High-level envelope functions combine RSA and AES for encrypting arbitrary sized data. Other utilities include key generators, hash functions (md5, sha1, sha256, etc), base64 encoder, a secure random number generator, and 'bignum' math methods for manually performing crypto calculations on large multibyte integers.

Packaged: 2018-11-15 13:15:06 UTC; jeroen

License: MIT + file LICENSE

Title: Toolkit for Encryption, Signatures and Certificates Based on OpenSSL

URL: <https://github.com/jeroen/openssl#readme>

BugReports: <https://github.com/jeroen/openssl/issues>

SystemRequirements:

OpenSSL >= 1.0.1

RoxygenNote: 6.1.1

VignetteBuilder: knitr

Maintainer: Jeroen Ooms <jeroen@berkeley.edu>

Type: Package

Repository: CRAN

Version: 1.1

Suggests: testthat, digest, knitr, rmarkdown, jsonlite, jose

NeedsCompilation: yes

Author: Jeroen Ooms [aut, cre] (<<https://orcid.org/0000-0002-4035-0289>>), Oliver Keyes [ctb]

Package: openssl

Authors@R: c(person("Jeroen", "Ooms", role = c("aut", "cre"), email = "jeroen@berkeley.edu", comment = c(ORCID = "0000-0002-4035-0289")), person("Oliver", "Keyes", role = "ctb"))

Date/Publication: 2018-11-15 14:20:03 UTC

Found in path(s):

* /opt/cola/permits/1357762054_1657278687.5787704/0/openssl-1-1-b1-jar/org/renjin/cran/openssl/DESCRIPTION

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/*!

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*/

/*! Respond.js v1.4.2: min/max-width media query polyfill * Copyright 2013 Scott Jehl

* Licensed under <https://github.com/scottjehl/Respond/blob/master/LICENSE-MIT>

* */

Found in path(s):

* /opt/cola/permits/1357762054_1657278687.5787704/0/openssl-1-1-b1-

jar/org/renjin/cran/openssl/doc/secure_rng.html

* /opt/cola/permits/1357762054_1657278687.5787704/0/openssl-1-1-b1-

jar/org/renjin/cran/openssl/doc/bignum.html

* /opt/cola/permits/1357762054_1657278687.5787704/0/openssl-1-1-b1-jar/org/renjin/cran/openssl/doc/keys.html

* /opt/cola/permits/1357762054_1657278687.5787704/0/openssl-1-1-b1-

jar/org/renjin/cran/openssl/doc/crypto_hashing.html

1.337 urllib3 1.26.10

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1.339 python-pip 20.0.2-5ubuntu1.6

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Any executables

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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	Year	Owner	GPL-
	from			compatible? (1)

2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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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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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 SSLCertificateFile.#

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h

*

/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/load_reporting.h
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/mock_stream.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/fork.h
* /opt/cola/permits/1362038476_1660896469.918055/0/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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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.cc

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/port.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/flawed.proto
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_allocator.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simple.proto
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1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
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- * /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
- * /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/interceptor_common.h
- *
- /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_writer.h
- * /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/generic/async_generic_service.h
- * /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
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- * /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel_posix.h
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/rpc_method.h

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/sync_stream.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/server_builder_option.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/async_stream.h

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/server_callback.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/support/status_code_enum.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/server_posix.h

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/node_generator_helpers.h

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/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/node_generator.cc

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/health_check_service_interface.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/php_generator_helpers.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/rpc_service_method.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/gpr_slice.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/connectivity_state.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/grpc_root/src/compiler/php_generator.h

*

/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/status_code_enum.h

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel_posix.h

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

Metadata-Version: 1.2

Name: grpcio-tools

Version: 1.47.0

Summary: Protobuf code generator for gRPC

Home-page: <https://grpc.io>

Author: The gRPC Authors

Author-email: grpc-io@googlegroups.com

License: Apache License 2.0

Description: gRPC Python Tools

=====

Package for gRPC Python tools.

Supported Python Versions

Python >= 3.6

Installation

The gRPC Python tools package is available for Linux, Mac OS X, and Windows.

Installing From PyPI

~~~~~

If you are installing locally...

::

\$ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

\$ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the :code:`pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

```
$ pip.exe install grpcio-tools
```

Windows users may need to invoke `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 `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 `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\*\** `pkg_resources.VersionConflict` *\*\*when I try*

to install

```
grpc**
```

This is likely because `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:

```
pip install --ignore-installed $OFFENDING_DEPENDENCY`
```

For example, if you get an error like the following:

```
::
```

```
Traceback (most recent call last):
```

```
File "<string>", line 17, in <module>
```

```
...
```

```
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
```

```
    raise VersionConflict(dist, req)
```

```
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

```
::
```

```
sudo pip install --ignore-installed six
```

**\*\*... see compiler errors**

**on some platforms when either installing from source or from the source distribution\*\***

If you see

```
::
```

```
/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
```

```
#include "Python.h"
```

```
^
```

```
compilation terminated.
```

You can fix it by installing `python-dev`` package. i.e

```
::
```

```
sudo apt-get install python-dev
```

If you see something similar to:

```
::
```

third\_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED\_INT\_MAX'

```
static const Type kPosMax = SIGNED_INT_MAX(Type); \\  
    ^
```

And your toolchain is GCC (at the time of this writing, up through at least GCC 6.0), this is probably a bug where GCC chokes on constant expressions when the `-fwrapv` flag is specified. You should consider setting your environment with `CFLAGS=-fno-wrapv` or using clang (`CC=clang`).

## Usage

-----

Given protobuf include directories `$INCLUDE`, an output directory `$OUTPUT`, and proto files `$PROTO_FILES`, invoke as:

::

```
$ python -m grpc_tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT  
$PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided command class in your `setup.py`:

::

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

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

Note that this particular approach requires `grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of `setup_requires` or `install_requires` will provide access to `grpc_tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our `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 `grpcio-tools` in `setup_requires` will provide the command on-setup as desired.`

For more information on command classes, consult `distutils` and `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):

```

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/PKG-INFO
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpcio_tools.egg-info/PKG-INFO

```

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```

// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//   http://www.apache.org/licenses/LICENSE-2.0
// distributed under the License is distributed on an "AS IS" BASIS,
// version.

```

Found in path(s):

```

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice.h

```

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

```

/* "grpc_tools/_protoc_compiler.pyx":1
* # Copyright 2020 The gRPC authors.      # <<<<<<<<<<<<<<<<<<<<<<
* #
* # Licensed under the Apache License, Version 2.0 (the "License");
*/

```

Found in path(s):

```

* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_protoc_compiler.cpp

```

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

```
/*
 *
 * Copyright 2019 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/opencensus.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/message_allocator.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync.h
*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_context.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
*
/opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_util.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/config_protobuf.h
* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
```

1.47.0/grpc\_root/src/compiler/cpp\_plugin.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_root/include/grpcpp/security/cronet\_credentials.h

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```
// Copyright 2008 Google Inc. All rights reserved.  
// Redistribution and use in source and binary forms, with or without  
// modification, are permitted provided that the following conditions are  
// * Redistributions of source code must retain the above copyright  
// notice, this list of conditions and the following disclaimer.  
// * Redistributions in binary form must reproduce the above  
// copyright notice, this list of conditions and the following disclaimer  
// in the documentation and/or other materials provided with the  
// * Neither the name of Google Inc. nor the names of its  
// this software without specific prior written permission.
```

Found in path(s):

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/testing/googletest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/descriptor.proto

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/any.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_enum\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/python/python\_plugin\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/dynamic\_message.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/message\_differencer\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_message\_field.cc

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_parse\_function\_generator.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_string\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_proto3\_arena\_lite.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/repeated\_ptr\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/testdata/books.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unknown\_field\_set.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/text\_format\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_kotlin\_generator.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_import\_public.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_primitive\_field.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_helpers.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/delimited\_message\_util.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_custom\_options.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/type\_resolver\_util\_test.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_primitive\_field.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_string\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/coded\_stream\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/object\_source.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_enum\_lite.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_enum\_util.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_service.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/annotation\_test\_util.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/wire\_format.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_message.cc

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_test\_util.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/repeated\_ptr\_field.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/substitute.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_primitive\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/struct.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/stl\_util.h

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_generator.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/time\_util.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_lite\_imports\_nonlite.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/datapiece.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_enum\_field\_lite.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/strtod.cc

\*

/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_proto2\_unittest.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/location\_tracker.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/explicitly\_constructed.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_enormous\_descriptor.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_tctable\_impl.inc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_helpers.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/duration.proto

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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_preserve\_unknown\_enum.proto  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_message\_layout\_helper.h  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_lite\_unittest.proto  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/tokenizer.cc  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_preserve\_unknown\_enum2.proto  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/default\_value\_objectwriter.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/structured\_objectwriter.h  
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1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/error\_listener.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/dynamic\_message\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_extension.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_message\_field.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_enum.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/json\_escaping.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/hash.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_string\_field\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/arena\_test\_util.cc

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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/statusor.h  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/descriptor\_unittest.cc  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_import\_public\_lite.proto  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_optimize\_for.proto  
 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/field\_mask.proto  
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 \* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

1.47.0/third\_party/protobuf/src/google/protobuf/io/gzip\_stream.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/mock\_code\_generator.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_primitive\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/lite\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/port.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/reflection\_internal.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/api.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/wire\_format\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_tctable\_lite.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/int128.h

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/opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/map\_field\_inl.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_generator\_factory.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/port\_undef.inc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/time\_util\_test.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/stringpiece.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/strutil.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_shared\_code\_generator.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/coded\_stream.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_mset.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_table\_driven\_lite.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/any.proto  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/testdata/struct.proto  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_options.h  
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/json\_stream\_parser.h



\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_enum.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/proto\_writer.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_lazy\_dependencies\_custom\_option.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_primitive\_field.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec\_file.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/metadata.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/main.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_primitive\_field.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_tctable\_decl.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/has\_bits.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_generator\_factory.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/command\_line\_interface.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_proto3\_optional.proto

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1.47.0/third\_party/protobuf/src/google/protobuf/map.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/reflection.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_table\_driven.h

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/internal/protostream\_objectwriter\_test.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/\_proto/google/protobuf/type.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_table\_driven\_lite.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_shared\_code\_generator.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/io/zero\_copy\_stream\_unittest.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/byte\_stream\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_no\_field\_presence.proto

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/unittest\_embed\_optimize\_for.proto

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/generated\_message\_reflection\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/util/field\_comparator.cc  
\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/status.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/parser.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/service.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_unittest.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_enum\_field.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/test\_util.cc

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_wrapper\_field.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/java/java\_string\_field.h

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/stubs/common\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/proto3\_lite\_unittest.cc

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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_repeated\_primitive\_field.cc

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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1.47.0/third_party/protobuf/src/google/protobuf/message_unittest.inc

```

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Found in path(s):

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* /opt/cola/permits/1362038476_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
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\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/setup.py

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/command.py

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc\_tools/test/BUILD.bazel

\* /opt/cola/permits/1362038476\_1660896469.918055/0/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/protoc\_lib\_deps.py

# 1.341 grpcio 1.47.0

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## 1.342 influxdb 1.9.5

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# 1.343 python3.8 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 <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

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## 1.344 alpine-baselayout 3.2.0-r22

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```
/*  
* Create mount directories in fstab  
*  
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>  
* May be distributed under the terms of GPL-2  
*  
* usage: mkmntdirs [fstab]  
*  
*/
```

Found in path(s):

```
* /opt/cola/permits/1344947999_1657894591.0906107/0/alpine-baselayout-3-2-0-r22-tar-gz/alpine-baselayout-tar-gz/mkmntdirs.c  
* /opt/cola/permits/1344947999_1657894591.0906107/0/alpine-baselayout-3-2-0-r22-tar-gz/mkmntdirs.c
```

## 1.345 python3.8-minimal 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 <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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|----------------|--------------|-----------|------------|---------------------|
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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                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 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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## 1.347.1 Available under license :

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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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```
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```

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```
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```

```
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Theodore Ts'o  
23-June-2007

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```

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file  
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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```
--  
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--  
-- 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  
-- \*\*\*\*\*

jnxLicenseRenewBeforeExpiration

OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License renew lead time before expiration in days."

::= { jnxLicenseSettings 1 }

jnxLicenseRenewInterval OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

```

STATUS      current
DESCRIPTION
    "License checking interval in hours."
::= { jnxLicenseSettings 2 }

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

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

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

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS  current
DESCRIPTION
    "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS  current
DESCRIPTION
    "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS  current
DESCRIPTION

```

```
"The SNMP trap that is generated when the
feature is used more
times than as specified in number of licenses allowed for feature
as identified by jnxLicenseFeatureName"
::= { jnxLicenseNotifications 4 }
```

```
jnxLicenseInfringeSingle NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
"The SNMP trap that is generated when the license for feature
identified by jnxLicenseFeatureName is not valid i.e. either expired or
not available."
::= { jnxLicenseNotifications 5 }
```

```
jnxLicenseKeyExpired NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName, jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
STATUS current
DESCRIPTION
"The SNMP trap that is generated when the license for feature
identified by jnxLicenseFeatureName is not valid i.e. either expired or
not available."
::= { jnxLicenseNotifications 6 }
```

```
END
```

```
/*
```

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

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

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

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

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

```
}

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

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

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

organization
  "Cisco Systems Inc.";

contact
  "Cisco Systems
  Customer Service

  Postal: 170 W Tasman Drive

  San Jose, CA 95134

  USA

  Tel: +1 800 553 -NETS

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

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

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

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

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

  NODE LOCKED LICENSE:
  Node locked licenses are locked to one of the device
```

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

#### NON-NODE LOCKED LICENSE:

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

#### METERED LICENSE:

Metered

licenses are valid for limited period of time

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

#### EULA:

End User License Agreement.

#### EVALUATION LICENSE:

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

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

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

#### RIGHT TO USE (RTU) LICENSE:

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

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

#### EXTENSION LICENSE:

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

#### GRACE PERIOD LICENSE:

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

#### PERMANENT LICENSE:

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

#### COUNTED LICENSE:

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

#### UNCOUNTED LICENSE:

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

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

#### IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

#### FEATURE LEVEL LICENSING:

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

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

#### LICENSE LINE:

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

#### LICENSE FILE:

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

#### DEVICE CREDENTIALS:

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

#### REHOST:

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

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

#### PERMISSION TICKET:

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

#### REHOST TICKET:

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

#### LICENSING PORTAL:

Generates licenses, permission tickets and verifies

device credentials and rehost tickets.

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

#### STEPS TO INSTALL A LICENSE:

To install a license, the management application

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

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

#### STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

#### STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

ticket as proof of revocation to

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

6. Executes the license install action on the new device.

#### STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to



identify the device.

3. Executes the regenerateLastRehostTicket action.

Device generates rehost ticket to be submitted as proof of revocation.

#### STEPS TO BACKUP ALL LICENSES:

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

1. Specifies the backup file path.

2. Executes the license backup

action.

#### STEPS TO GENERATE & EXPORT EULA:

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

1. Specifies the license file path that has licenses to be installed

2. Specifies the EULA file path where EULA need to be exported to

3. Executes the generate EULA action.

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

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

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

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

device and has only one UDI associated with it.

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

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

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

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

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

```
revision 2008-11-21 {
description
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
```

```

    paidSubscription
    evaluationSubscription
    extensionSubscription
o Added following objects to clmgmtLicenseInfoTable
    clmgmtLicenseStartDate
    clmgmtLicenseEndDate
o Added following objects to clmgmtLicensableFeatureTable
    clmgmtFeatureStartDate
    clmgmtFeatureEndDate
o Added the following notifications
    clmgmtLicenseSubscriptionExpiryWarning
    clmgmtLicenseSubscriptionExtExpiryWarning
    clmgmtLicenseSubscriptionExpired
o Added the following conformance groups
    clmgmtLicenseSubscriptionGroup
    clmgmtLicenseSubscriptionUsageNotifGroup
The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

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

```

```

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

```

```

typedef ClmgmtLicenseIndexOrZero {
type uint32;
description
"This textual convention is an extension of the ClmgmtLicenseIndex
convention.

```

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

```
}
```

```
typedef ClmgmtLicenseTransferProtocol {
```

```
  type enumeration {
```

```
    enum "none" {
```

```
      value "1";
```

```
    }
```

```
    enum "local" {
```

```
      value "2";
```

```
    }
```

```
    enum "tftp" {
```

```
      value "3";
```

```
    }
```

```
    enum "ftp" {
```

```
      value "4";
```

```
    }
```

```
    enum "rcp" {
```

```
      value "5";
```

```
    }
```

```
    enum "http" {
```

```
      value "6";
```

```
    }
```

```
    enum "scp" {
```

```
      value "7";
```

```
    }
```

```
    enum "sftp" {
```

```
      value "8";
```

```
    }
```

```
  }
```

```
  description
```

```
    "The transfer protocol that should be used for copying files  
    when performing license management. When
```

```
the protocol is
```

```
  set to local(2), local file system (flash or disk) is used.
```

```
  Different agents may support different transfer protocols
```

```
  and the management application is expected to some how determine
```

```
  which protocol is supported and use.";
```

```
}
```

```
typedef ClmgmtLicenseActionState {
```

```
  type enumeration {
```

```
    enum "none" {
```

```
      value "1";
```

```
    }
```

```
    enum "pending" {
```

```
      value "2";
```

```
    }
```

```
    enum "inProgress" {
```

```

    value "3";
}
enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
description
"The state of license action execution.

```

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

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

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

successful(4) - action has completed successfully.

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

```

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

```

```

typedef ClmgmtLicenseActionFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "generalFailure" {
            value "2";
        }
    }
}

```

```
enum "transferProtocolNotSupported" {
  value
"3";
}
enum "fileServerNotReachable" {
  value "4";
}
enum "unrecognizedEntPhysicalIndex" {
  value "5";
}
enum "invalidLicenseFilePath" {
  value "6";
}
enum "invalidLicenseFile" {
  value "7";
}
enum "invalidLicenseLine" {
  value "8";
}
enum "licenseAlreadyExists" {
  value "9";
}
enum "licenseNotValidForDevice" {
  value "10";
}
enum "invalidLicenseCount" {
  value "11";
}
enum "invalidLicensePeriod" {
  value "12";
}
enum "licenseInUse" {
  value "13";
}
enum "invalidLicenseStore" {
  value "14";
}
enum "licenseStorageFull" {
  value "15";
}
enum "invalidPermissionTicketFile" {
  value "16";
}
enum "invalidPermissionTicket" {
  value "17";
}
enum "invalidRehostTicketFile" {
  value "18";
```

```

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

```

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

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

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

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

invalidLicenseFile(7)   - Contents of license file are not valid.

invalidLicenseLine(8)   - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is no more space in the license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible.";

}

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

container clmgmtLicenseConfiguration {  
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

leaf clmgmtNextFreeLicenseActionIndex {  
 type uint32 {  
 range "1..4294967295";  
 }  
 description  
 "This object contains appropriate value for  
 clmgmtLicenseActionIndex that can be used to create



an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and

entry creation needs to be repeated.";

```
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
  }
}
```

```
container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
```

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

with this value at the same time.

In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

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

```
container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
```

```

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

```

```

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

```

```

leaf clmgmtLicenseErrorNotifEnable {
  type boolean;
  description
    "This object indicates whether the device should generate
    notifications related to error conditions in enforcing
    licensing. This object enables/disables sending following
    notifications:
      clmgmtLicenseNotEnforced";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
}
}

```

```
container clmgmtLicenseActionTable {
description
"A table for invoking license management actions. Management
application must create a row in this table to trigger any of
the license management actions. The following are different
actions that can be executed using this table.
1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA
```

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

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

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

```
list clmgmtLicenseActionEntry {
key "clmgmtLicenseActionIndex";
description
"An entry for each action that is being executed or was
executed recently. The management application executes an
action
by creating this entry. This can be done in the following
2 methods
```

#### 1. CREATE-AND-GO method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

#### 2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects

are set to valid values, management application triggers action execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

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

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

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

#### 1. Installing a license

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

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

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

`clmgmtLicenseStore` need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be

installed on multiple devices (for example to multiple members within a stack), then value of `clmgmtLicenseStore` is ignored and the licenses will be installed in default license stores of the respective devices.

## 2. Clearing a license

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

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

## 3. Revoking a license

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

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

## 4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

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

## 5. Save all licenses to a backup storage

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

- a. `clmgmtLicenseActionEntPhysicalIndex`
- b. `clmgmtLicenseActionTransferProtocol`
- c. `clmgmtLicenseServerAddressType`
- d. `clmgmtLicenseServerAddress`

- e. clmgmtLicenseServerUsername
  - f. clmgmtLicenseServerPassword
  - g.
- clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

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

The following MIB objects need to be set exporting required EULAs

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

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

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

Entry can be deleted

except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```
leaf clmgmtLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a row in
    clmgmtLicenseActionTable. The management application should choose
    this value by reading clmgmtNextFreeLicenseActionIndex
    while creating an entry in this table. If an entry already
    exists with this index, the creation of the entry will not
    continue and error will be returned. The management application
    should read the value of clmgmtNextFreeLicenseActionIndex
    again and retry with the new value for this object.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}
```

```

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

```

```

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

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

```

```

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

```

```
}
```

```
leaf clmgmtLicenseServerAddress {  
  type inet-address:InetAddress;  
  description  
    "This object indicates the ip address of the server from  
    which the files must be read or written to if  
    clmgmtLicenseActionTransferProtocol is not none(1) or  
    local(2).  
  
    All bits as 0s or 1s for clmgmtLicenseServerAddress are not  
    allowed.  
  
    The format of this address depends on the value of the  
    clmgmtLicenseServerAddressType object";  
  smiv2:defval "";  
  smiv2:max-access "read-write";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";  
}
```

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

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



a zero-length string for

```
    security reasons.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}
```

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

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

```
leaf clmgmtLicenseActionLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
  description
    "This object indicates the the license index of the license
    that is the subject of this action. This is used for
    identifying a license for performing actions specific to
    that license. This object need to be set only if
    clmgmtLicenseAction is set to clear(4). The value of this
    object is same as the clmgmtLicenseIndex
```

object in

```
    clmgmtLicenseInfoEntry for license that is subject of this
    action.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}
```

```
leaf clmgmtLicensePermissionTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
}
```

description

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

```
leaf clmgmtLicenseRehostTicketFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
}
```

description

```
"This object indicates the file where the rehost ticket
generated by the device need to be exported to. The rehost
ticket is generated as a result of processPermissionTicket
and regenerateLastRehostTicket actions. After generating
the rehost ticket, the device exports the rehost ticket
contents to this file. This object need to be set only
if clmgmtLicenseAction is set to processPermissionTicket(4)
or regenerateLastRehostTicket(5) actions.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}
```

```
leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
}
```

```

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

```

```

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

```

```

leaf clmgmtLicenseAction {
  type enumeration {
    enum "noOp" {
value "1";
    }
    enum "install" {
      value "2";
    }
    enum "clear" {
      value "3";
    }
    enum "processPermissionTicket" {
      value "4";
    }
    enum "regenerateLastRehostTicket" {
      value "5";
    }
    enum "backup" {
      value "6";
    }
    enum "generateEULA" {
      value "7";
    }
  }
}

```

```

}
description
"This object indicates the the command/action to be executed.

```

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

```

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

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

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

generateEULA(7) Checks whether the licenses
in the license file need EULA
acceptance and uploads the
needed EULA contents to a file.";
smiv2:defval "noOp";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}

```

```

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

```

```

clmngmtLicenseDeviceInfoEntry {
  key "entPhysicalIndex";
  description
  "An entry in clmngmtLicenseDeviceInfoTable. 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 clmngmtDefaultLicenseStore {
    type uint32 {
      range "1..4294967295";
    }
    description
    "This object indicates the clmngmtLicenseStoreIndex 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 clmngmtLicenseInfoTable {
  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 clmngmtLicenseInfoEntry {
    key "entPhysicalIndex clmngmtLicenseStoreUsed clmngmtLicenseIndex";
    description
    "An entry in clmngmtLicenseInfoTable. Each entry contains
    information about a license installed on the device. This
    entry gets created when a license is installed successfully.
    Management application can not create these entries directly, but
    will do so indirectly by executing license install action.
    Some of these entries may already exist that correspond to
    demo licenses even before management application installs any
    licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";
  }
}

```

```

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

```

```

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

```

```

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

```

```

leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString
{
  length "0..128";
}
  description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

```

```

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
}

```

```
description
  "This object indicates the version of the feature that is
  using or can use this license. Examples of feature version
  are: '1.0', '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}
```

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

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

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses

have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of

the product.

This is a Right To Use license which is not in evaluation mode for a limited time.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
}
```

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

```

}

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

```

```

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

```

```

leaf clmgmtLicenseExpiredPeriod {
  type uint32;
  units "seconds";
  description
    "This object indicates the elapsed time period since the license
    expired. This object is applicable only if clmgmtLicenseType
    is demo(1),
or extension(2) or gracePeriod(3). Also, this
    value of this object will be valid only after the license
    expires. The object will return 0 for other license types
    or before the license expiry.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}

```

```

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if

```

```

    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

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

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

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

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

leaf clmgmtLicenseStatus {
    type enumeration {
        enum "inactive" {
            value "1";
        }
        enum "notInUse" {

```

```

    value "2";
  }
  enum "inUse" {
    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
"This object represents status of the license.

```

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

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

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

expiredInUse(4)  
- license is expired but still being held by the feature.

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

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

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
```

```
}
```

```
leaf clmgmtLicenseStartDate {
```

```
type snmpv2-tc:DateAndTime;
```

```
description
```

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

when clmgmtLicenseType is paidSubscription(5),

evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is



```
    not applicable.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}
```

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

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

```
container clmgmtLicensableFeatureTable {
  description
    "This table contains list of licensable features in the
    image. All the licensable features will have an entry each
    in this table irrespective of whether they are using any
    licenses currently. Entries in this table are created by
    the agent one for each licensable feature in the image.
    These entries remain in the table permanently and can not
    be deleted. Management application can not create or delete
    entries from this table.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";
```

```
list clmgmtLicensableFeatureEntry {
  key "entPhysicalIndex clmgmtFeatureIndex";
  description
    "An entry
```

in clmgmtLicensableFeatureTable. Each entry represents

a licensable feature.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

leaf entPhysicalIndex {

type leafref {

path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-

mib:entPhysicalIndex";

}

}

leaf clmgmtFeatureIndex {

type uint32 {

range "1..4294967295";

}

description

"This object uniquely identifies a licensable feature in the device.";

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";

}

leaf clmgmtFeatureName {

type snmp-framework:SnmpAdminString {

length "0..128";

}

description

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'";

smiv2:max-access

"read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";

}

leaf clmgmtFeatureVersion {

type snmp-framework:SnmpAdminString {

length "0..32";

}

description

"This object indicates the version of the licensable feature in the device. Examples of feature versions are: '1.0' or '2.0'";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";

}

leaf clmgmtFeatureValidityPeriodRemaining {

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

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

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

```
leaf clmgmtFeatureStartDate {

type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license start date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid start date. The start date will
    be the earliest of the valid start dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}
```

```

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

```

```

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

```

```

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

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

```

```

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

```

## 1. CREATE-AND-GO method

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

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

## 2. CREATE-AND-WAIT method

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

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

The status of action execution can be known by querying

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

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

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";
```

```
leaf clmgmtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
  "This object uniquely identifies a row in  
  clmgmtDevCredExportActionTable. The management application  
  chooses this value by reading  
  clmgmtNextFreeCredExportActionIndex 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
SnmAdminString
    FROM SNMP-FRAMEWORK-MIB
entPhysicalIndex
    FROM ENTITY-MIB
ciscoMgmt
    FROM CISCO-SMI;

```

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

```

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

```

```

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

```

## DESCRIPTION

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

This mechanism is referred to as image level licensing.

Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

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

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the base advsecurity license.
- Customer upgrades to advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.
- No upgrades available for advservices license.

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

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

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

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

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

```
entPhysicalIndex imported from ENTITY-MIB is used to identify
the device uniquely."
REVISION      "200710160000Z"
DESCRIPTION
  "Initial version of this MIB module."
 ::= { ciscoMgmt 640 }
```

```
ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 0 }
```

```
ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 1 }
```

```
ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 2 }
```

```
BootImageLevel ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
  "This textual convention is used to define
the image level.

If the device is running at advipservices
image level, then the boot image level will
be 'advipservices'."
SYNTAX      OCTET STRING (SIZE (0..255))
```

```
LicenseNameList ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
  "This textual convention is used to define
the list of license names.
```

If multiple licenses

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

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

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

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

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

INDEX {  
    entPhysicalIndex,  
    cilmModuleName  
}

::= { cilmBootImageLevelTable 1 }

```

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

```

cilmModuleName OBJECT-TYPE

```

SYNTAX      SnmpAdminString
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION

```

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality. For example, in a wireless image there can be two modules - a base image module and a wireless module."

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

cilmCurrentImageLevel OBJECT-TYPE

```

SYNTAX      BootImageLevel
MAX-ACCESS  read-only
STATUS
    current
DESCRIPTION

```

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

```
 ::= { cilmBootImageLevelEntry 2 }
```

cilmConfiguredBootImageLevel OBJECT-TYPE

```

SYNTAX      BootImageLevel
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION

```

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

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

```
 ::= { cilmBootImageLevelEntry 3 }
```

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

image level is determined based

on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and

uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

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

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION



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

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

::= { cilmBootImageLevelEntry 8 }

#### cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 2 }

#### cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An entry in the table containing the following information.  
- The image levels at the which the modules can be run.

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

```
INDEX      {
            entPhysicalIndex,
            cilmModuleName,
            cilmImageLicenseMapIndex
          }
 ::= { cilmImageLevelToLicenseMapTable 1 }
```

```
CilmImageLevelToLicenseMapEntry ::= SEQUENCE {
  cilmImageLicenseMapIndex  Unsigned32,
  cilmImageLicenseImageLevel BootImageLevel,
  cilmImageLicenseName     LicenseNameList,
  cilmImageLicensePriority  Unsigned32
}
```

```
cilmImageLicenseMapIndex OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This is a running
index used to identify an entry
  of this table."
 ::= { cilmImageLevelToLicenseMapEntry 1 }
```

```
cilmImageLicenseImageLevel OBJECT-TYPE
  SYNTAX      BootImageLevel
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created
in this table for every module and image level
combination."
 ::= { cilmImageLevelToLicenseMapEntry 2 }
```

```
cilmImageLicenseName OBJECT-TYPE
  SYNTAX      LicenseNameList
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object indicates the list of licenses needed to
be installed for the module to run at the image level
mentioned by cilmImageLicenseImageLevel object of this
entry."
```

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

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

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

## REFERENCE

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

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {  
    cilmCurrentImageLevel,  
    cilmConfiguredBootImageLevel  
}

STATUS current

## DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 2 }

cilmModuleCompliance MODULE-COMPLIANCE

STATUS current

## DESCRIPTION

"Compliance statement for Cisco Image level license mgmt MIB."

MODULE -- this module

MANDATORY-GROUPS {  
    cilmAdminGroup,  
    cilmNotifGroup

```

    }

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

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
OBJECTS    {
    cilmCurrentImageLevel,
    cilmConfiguredBootImageLevel,
    cilmNextBootImageLevel,
    cilmCurrentLicenseStoreIndex,
    cilmCurrentLicenseIndex,
    cilmNextBootLicenseStoreIndex,
    cilmNextBootLicenseIndex,
    cilmEULAAccepted,
    cilmImageLevelChangedNotif

    }
STATUS     current
DESCRIPTION
    "Objects for performing license set operation for setting
    next boot level."
 ::= { cilmModuleGroups 1 }

cilmOperGroup OBJECT-GROUP
OBJECTS    {
    cilmImageLicenseImageLevel,
    cilmImageLicenseName,
    cilmImageLicensePriority

    }
STATUS     current
DESCRIPTION
    "Objects for getting current image level configuration data."
 ::= { cilmModuleGroups 2 }

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

END

```

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

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

```
IMPORTS
```

```
OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
    FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue,
RowStatus,
StorageType,
DateAndTime
    FROM SNMPv2-TC
SnmAdminString
    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 somehow determine which protocol is supported and use."

```
SYNTAX      INTEGER {  
    none(1),  
    local(2),  
    tftp(3),  
    ftp(4),  
    rcp(5),  
    http(6),  
    scp(7),  
    sftp(8)  
}
```

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

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

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

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

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB

objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.

failed(6) - action has failed."

```
SYNTAX      INTEGER {  
    none(1),  
    pending(2),  
    inProgress(3),  
    successful(4),  
    partiallySuccessful(5),
```

```
failed(6)
}
```

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Reason for license action failure. Defines error codes for all the license actions.

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

generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

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

invalidLicenseFile(7) - Contents of license file are not valid.

invalidLicenseLine(8) - License string in the license file is not valid.

licenseAlreadyExists(9) - Management application is trying to install a license that already exists.

licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.

invalidLicenseCount(11) - Invalid count for this counted license.

invalidLicensePeriod(12) - Validity period is invalid for this expiring license.

licenseInUse(13) - License file is in use by a feature/image.

invalidLicenseStore(14) - License store is not valid.

licenseStorageFull(15) - There is



no more space in the

license storage.

invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.

invalidPermissionTicket(17) - The permission ticket file contents are not valid.

invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.

invalidRehostTicket(19) - The rehost ticket file contents are not valid.

invalidLicenseBackupFile(20) - License backup store path is not accessible.

licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This

error code is sent back in

response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.

invalidLicenseEULAFile(22) - EULA file path is not accessible."

```
SYNTAX    INTEGER {  
    none(1),  
    generalFailure(2),  
    transferProtocolNotSupported(3),  
    fileServerNotReachable(4),  
    unrecognizedEntPhysicalIndex(5),  
    invalidLicenseFilePath(6),  
    invalidLicenseFile(7),  
    invalidLicenseLine(8),  
    licenseAlreadyExists(9),  
    licenseNotValidForDevice(10),  
    invalidLicenseCount(11),  
  
    invalidLicensePeriod(12),  
    licenseInUse(13),  
    invalidLicenseStore(14),  
    licenseStorageFull(15),  
    invalidPermissionTicketFile(16),  
    invalidPermissionTicket(17),  
    invalidRehostTicketFile(18),  
    invalidRehostTicket(19),  
    invalidLicenseBackupFile(20),  
    licenseClearInProgress(21),  
    invalidLicenseEULAFile(22)
```

}

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtLicenseActionIndex that can be used to create an entry in clmgmtLicenseActionTable. The management application should read this object first and then use this as the value

for clmgmtLicenseActionIndex to avoid collisions

when creating entries in clmgmtLicenseActionTable.

Following this approach does not guarantee collision free

row creation, but will reduce the probability. The

collision will happen if two management applications read this

object at the same time and attempt to create an entry

with this value at the same time. In this case, the

management application whose request is processed after the first

request will get an error and the process of reading this object

and entry creation needs to be repeated."

::= { clmgmtLicenseConfiguration 1 }

-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for invoking license management actions. Management application must create a row

in this table to trigger any of

the license management actions. The following are different actions that can be executed using this table.

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

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

Once the request completes, the management application should

retrieve the values of the objects of interest, and then

delete the entry. In order to prevent old entries from

clogging the table, entries will be aged out, but an entry

will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An

entry for each action that is being executed or was executed recently. The management application executes an action by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

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

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

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

licenses can be queried from `clmgmtLicenseActionResultTable`.

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

### 1. Installing a license

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

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

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

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

### 2. Clearing a license

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

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

### 3. Revoking a license

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

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
- c. `clmgmtLicenseServerAddress`

- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

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

5. Save all licenses to a backup storage

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

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

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

The following MIB objects need to be set exporting required EULAs

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

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

a. clmgmtLicenseServerAddressType

b. clmgmtLicenseServerAddress

c. clmgmtLicenseServerUsername

d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX      { clmgmtLicenseActionIndex }  
::= { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {  
    clmgmtLicenseActionIndex      Unsigned32,  
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,  
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,  
    clmgmtLicenseServerAddressType InetAddressType,  
    clmgmtLicenseServerAddress     InetAddress,  
    clmgmtLicenseServerUsername     SnmpAdminString,  
    clmgmtLicenseServerPassword     SnmpAdminString,  
    clmgmtLicenseFile               SnmpAdminString,  
    clmgmtLicenseStore               Unsigned32,  
    clmgmtLicenseActionLicenseIndex  
    ClmgmtLicenseIndexOrZero,  
    clmgmtLicensePermissionTicketFile SnmpAdminString,  
    clmgmtLicenseRehostTicketFile     SnmpAdminString,  
    clmgmtLicenseBackupFile           SnmpAdminString,  
    clmgmtLicenseStopOnFailure        TruthValue,  
    clmgmtLicenseAction               INTEGER,  
    clmgmtLicenseActionState          ClmgmtLicenseActionState,  
    clmgmtLicenseJobQPosition          Unsigned32,  
    clmgmtLicenseActionFailCause      ClmgmtLicenseActionFailCause,  
    clmgmtLicenseActionStorageType    StorageType,  
    clmgmtLicenseActionRowStatus      RowStatus,  
    clmgmtLicenseAcceptEULA           TruthValue,  
    clmgmtLicenseEULAFile             SnmpAdminString  
}
```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in  
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex

while creating an entry in this table. If an entry already

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

```
::= { clmgmtLicenseActionEntry 1 }
```

#### `clmgmtLicenseActionEntPhysicalIndex` OBJECT-TYPE

SYNTAX `PhysicalIndexOrZero`

MAX-ACCESS `read-create`

STATUS `current`

#### DESCRIPTION

"This object represents the `entPhysicalIndex` of the device where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples

include stackable switches, devices

with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device"

DEFVAL `{ 0 }`

```
::= { clmgmtLicenseActionEntry 2 }
```

#### `clmgmtLicenseActionTransferProtocol` OBJECT-TYPE

SYNTAX `ClmgmtLicenseTransferProtocol`

MAX-ACCESS `read-create`

STATUS `current`

#### DESCRIPTION

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

1. `clmgmtLicenseFile`
2. `clmgmtLicensePermissionTicketFile`
3. `clmgmtLicenseRehostTicketFile`
4. `clmgmtLicenseBackupFile`

Note: This object need not be set if the all the files required for the action are in device's local file system."

DEFVAL `{ none }`

```
::= { clmgmtLicenseActionEntry 3 }
```

#### `clmgmtLicenseServerAddressType`

##### OBJECT-TYPE

SYNTAX `InetAddressType`

MAX-ACCESS `read-create`

STATUS `current`

#### DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }  
::= { clmgmtLicenseActionEntry 4 }

#### clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

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

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL { "" }  
::= { clmgmtLicenseActionEntry 5 }

#### clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }  
::= { clmgmtLicenseActionEntry 6 }

#### clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from



an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the

value of this object

to valid value before invoking action."

```
DEFVAL      { "" }
::= { clmgmtLicenseActionEntry 13 }
```

#### clmgmtLicenseStopOnFailure OBJECT-TYPE

```
SYNTAX      TruthValue
MAX-ACCESS  read-create
STATUS      current
```

#### DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

```
DEFVAL      { false }
::= { clmgmtLicenseActionEntry 14 }
```

#### clmgmtLicenseAction OBJECT-TYPE

```
SYNTAX      INTEGER {
                noOp(1),
                install(2),
                clear(3),
                processPermissionTicket(4),
                regenerateLastRehostTicket(5),
                backup(6),
                generateEULA(7)
            }
```

```
MAX-ACCESS  read-create
```

```
STATUS
```

```
current
```

#### DESCRIPTION

"This object indicates the the command/action to be executed.

| Command                       | Remarks                                                                   |
|-------------------------------|---------------------------------------------------------------------------|
| -----                         | -----                                                                     |
| noOp(1)                       | No operation will be performed.                                           |
| install(2)                    | Installs the license.                                                     |
| clear(3)                      | Clears the license.                                                       |
| processPermissionTicket(4)    | Processes thee permission ticket and generates and exports rehost ticket. |
| regenerateLastRehostTicket(5) | Generates and exports the last generated rehost ticket.                   |

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

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

DEFVAL        { noOp }  
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX        ClmgmtLicenseActionState

MAX-ACCESS    read-only

STATUS        current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX        Unsigned32

MAX-ACCESS    read-only

STATUS        current

DESCRIPTION

"This object represents the position of the action  
in the license action job queue that is maintained  
internally. Only actions in pending(2) state will  
be put in the queue until they are executed. By  
reading this object, the management

application can make

intelligent decision on whether to execute another  
action that it is planning on. For example, if there  
is already a license clear action in the queue in  
pending(2) state, management application can choose to  
defer its license back up action to a later time. This  
object will return a value of 0 if the action is not in  
pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX        ClmgmtLicenseActionFailCause

MAX-ACCESS    read-only

STATUS        current

DESCRIPTION

"This object indicates the reason for this license action  
failure. The value of this object is valid only when  
clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

#### clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtLicenseActionEntry 19 }

#### clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries

will be aged out, but an

entry will never be deleted within 5 minutes of completion"

::= { clmgmtLicenseActionEntry 20 }

#### clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

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

DEFVAL { false }

```
::= { clmgmtLicenseActionEntry 21 }
```

#### clmgmtLicenseEULAFile OBJECT-TYPE

```
SYNTAX      SnmpAdminString (SIZE (0..255))
```

```
MAX-ACCESS  read-create
```

```
STATUS      current
```

#### DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

```
DEFVAL      { "" }
```

```
::= { clmgmtLicenseActionEntry 22 }
```

-- License action results table.

#### clmgmtLicenseActionResultTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF ClmgmtLicenseActionResultEntry
```

```
MAX-ACCESS  not-accessible
```

```
STATUS      current
```

#### DESCRIPTION

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

```
::= { clmgmtLicenseConfiguration 3 }
```

#### clmgmtLicenseActionResultEntry OBJECT-TYPE

#### SYNTAX

```
ClmgmtLicenseActionResultEntry
```

```
MAX-ACCESS  not-accessible
```

```
STATUS      current
```

#### DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license. These entries are created immediately after action execution when the action involves multiple licenses. These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

```
INDEX      {
```

```
clmgmtLicenseActionIndex,
```

```

        clmgmtLicenseNumber
    }
 ::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
    clmgmtLicenseNumber      Unsigned32,
    clmgmtLicenseIndivActionState  ClmgmtLicenseActionState,
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}

```

```

clmgmtLicenseNumber OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object indicates the sequence number of this license
    in the list of licenses on which the action is executed.
    For example, if there are 3 licenses in a license file
    when executing license install action, this object will
    have values 1, 2 and 3 respectively as ordered in the
    license file."
 ::= { clmgmtLicenseActionResultEntry 1 }

```

```

clmgmtLicenseIndivActionState OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionState
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the state of action on this
    individual license."
 ::= { clmgmtLicenseActionResultEntry 2 }

```

```

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionFailCause
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the reason for action failure
    on this
    individual license"
 ::= { clmgmtLicenseActionResultEntry 3 }

```

-- License Store Info Table

```

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 accepted  
false(2) - EULA not accepted"  
::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."  
::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {  
inactive(1),  
notInUse(2),  
inUse(3),  
expiredInUse(4),  
expiredNotInUse(5),  
usageCountConsumed(6)  
}  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object represents status of the license.  
  
inactive(1) - license is installed, but not active.

notInUse(2) - license is installed and available for use.  
inUse(3) - the license is being used (by a feature).  
expiredInUse(4) - license is expired but still being held by the feature.  
expiredNotInUse(5) - license is expired and not being held by any feature.  
usageCountConsumed(6) - number of entities using this licenses has reached the allowed limit, no new entities are allowed to use this license."  
 ::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the start date for a subscription license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license. This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry  
16 }

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current



#### DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

#### clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

#### clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

INDEX {  
    entPhysicalIndex,  
    clmgmtFeatureIndex  
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

    clmgmtFeatureIndex Unsigned32,  
    clmgmtFeatureName SnmpAdminString,  
    clmgmtFeatureVersion SnmpAdminString,  
    clmgmtFeatureValidityPeriodRemaining Unsigned32,  
    clmgmtFeatureWhatIsCounted SnmpAdminString,  
    clmgmtFeatureStartDate DateAndTime,  
    clmgmtFeatureEndDate DateAndTime,  
    clmgmtFeaturePeriodUsed Unsigned32

}

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the

licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

#### clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE  
(0..128))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

#### clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

#### clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

#### clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object indicates the license period used for the feature."  
 ::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

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

will get an error and the

process of reading this object and entry creation needs to be  
repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

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

Once the request completes, the management application should  
retrieve the values of the objects of interest, and then  
delete the entry. In order to prevent old entries from  
clogging the table, entries will be aged out, but an entry

will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

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

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

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

be retrieved from clmgmtDevCredCommandFailCause.

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

INDEX { clmgmtDevCredExportActionIndex }

```
::= { clmgmtDevCredExportActionTable 1 }
```

```
ClmgmtDevCredExportActionEntry ::= SEQUENCE {  
    clmgmtDevCredExportActionIndex Unsigned32,  
    clmgmtDevCredEntPhysicalIndex PhysicalIndexOrZero,  
    clmgmtDevCredTransferProtocol ClmgmtLicenseTransferProtocol,  
    clmgmtDevCredServerAddressType InetAddressType,  
    clmgmtDevCredServerAddress InetAddress,  
    clmgmtDevCredServerUsername SnmpAdminString,  
    clmgmtDevCredServerPassword SnmpAdminString,  
    clmgmtDevCredExportFile SnmpAdminString,  
    clmgmtDevCredCommand INTEGER,  
    clmgmtDevCredCommandState ClmgmtLicenseActionState,  
    clmgmtDevCredCommandFailCause INTEGER,  
    clmgmtDevCredStorageType  
    StorageType,  
    clmgmtDevCredRowStatus RowStatus  
}
```

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in clmgmtDevCredExportActionTable. The management application chooses this value by reading clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object."

```
::= { clmgmtDevCredExportActionEntry 1 }
```

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

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

DEFVAL { 0 }  
::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry  
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

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

The format of this address depends on the value of the clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE  
SYNTAX SnmpAdminString (SIZE (0..96))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."  
DEFVAL { "" }  
 ::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE  
SYNTAX SnmpAdminString (SIZE (0..96))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."  
DEFVAL { "" }  
 ::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE  
SYNTAX SnmpAdminString (SIZE (0..255))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This object represents file where device credentials needs to be exported to."  
 ::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE  
SYNTAX INTEGER {  
noOp(1),  
getDeviceCredentials(2)  
}  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This object indicates the the command to be executed."



| Command | Remarks |
|---------|---------|
|---------|---------|

-----

-----

|         |                                 |
|---------|---------------------------------|
| noOp(1) | No operation will be performed. |
|---------|---------------------------------|

|                         |                             |
|-------------------------|-----------------------------|
| getDeviceCredentials(2) | Exports device credentials" |
|-------------------------|-----------------------------|

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

SYNTAX INTEGER {

none(1),

unknownError(2),

transferProtocolNotSupported(3),

fileServerNotReachable(4),

unrecognizedEntPhysicalIndex(5),

invalidFile(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

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

none(1) - action execution has not started yet.

If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.

unknownError(2) - reason for failure is unknown,

operation failed, no operation is performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
given is not supported.  
fileServerNotReachable(4) - file server is not reachable.  
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex  
is not  
valid  
invalidFile(6) - The target file specified is not valid."  
::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual  
row. Conceptual rows having the value 'permanent' need not  
allow write-access to any columnar objects in the row."

DEFVAL { volatile }  
::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current

DESCRIPTION

"This object indicates the the status of this table entry.  
Once the entry status is set to active(1), the associated  
entry cannot be modified until the action completes  
(clmgmtDevCredCommandStatus is set to a value  
other than

inProgress(3)). Once the action completes  
the only operation possible after this is to delete  
the row.

clmgmtDevCredExportFile is a mandatory object to be  
set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-write  
STATUS current

DESCRIPTION

"This object indicates whether the device should generate

the notifications related to usage of licenses. This object enables/disables sending following notifications:

- clmgmtLicenseExpired
- clmgmtLicenseExpiryWarning
- clmgmtLicenseUsageCountExceeded
- clmgmtLicenseUsageCountAboutToExceed
- clmgmtLicenseSubscriptionExpiryWarning
- clmgmtLicenseSubscriptionExtExpiryWarning
- clmgmtLicenseSubscriptionExpired
- clmgmtLicenseEvalRTUTransitionWarning
- clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

- clmgmtLicenseInstalled
- clmgmtLicenseCleared
- clmgmtLicenseRevoked
- clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

- clmgmtLicenseNotEnforced"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE

OBJECTS {  
clmgmtFeatureName,

```

        clmgmtFeatureVersion
    }
STATUS    current
DESCRIPTION
    "This notification is sent, when a feature license
    expires. This notification will be sent continuously
    every week even after the expiry to alert the management
    application."
::= { ciscoLicenseMgmtMIBNotifs 1 }

```

#### clmgmtLicenseExpiryWarning NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtFeatureName,
    clmgmtFeatureVersion,
    clmgmtFeatureValidityPeriodRemaining
}

```

```
STATUS    current
```

#### DESCRIPTION

"This notification is sent when a license is about to

expire. This notification will go out multiple times.

First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."

```
::= { ciscoLicenseMgmtMIBNotifs 2 }
```

#### clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseMaxUsageCount,
    clmgmtFeatureWhatIsCounted,
    clmgmtLicenseComments
}

```

```
STATUS    current
```

#### DESCRIPTION

"This notification is sent when clmgmtLicenseUsageCountRemaining has reached clmgmtLicenseMaxUsageCount for a counting license."

```
::= { ciscoLicenseMgmtMIBNotifs 3 }
```

#### clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseMaxUsageCount,
    clmgmtLicenseUsageCountRemaining,
}

```

```

        clmgmtFeatureWhatIsCounted,
        clmgmtLicenseComments
    }
STATUS    current
DESCRIPTION
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached 80% of clmgmtLicenseMaxUsageCount for a counting
    license. This is a warning notification to the management
    application that very soon the maximum count will be reached
    and after that the device will not allow new entities to
    make use of this license."
::= { ciscoLicenseMgmtMIBNotifs 4 }

```

#### clmgmtLicenseInstalled NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,

    clmgmtLicenseType,
    clmgmtLicenseComments
}
STATUS    current
DESCRIPTION
    "This notification is sent when a license is installed
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 5 }

```

#### clmgmtLicenseCleared NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseType,
    clmgmtLicenseComments
}
STATUS    current
DESCRIPTION
    "This notification is sent when a license is cleared
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 6 }

```

#### clmgmtLicenseRevoked NOTIFICATION-TYPE

```

OBJECTS    {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseType,
    clmgmtLicenseComments
}
STATUS

```

current  
DESCRIPTION  
"This notification is sent when a license is revoked successfully."  
::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion  
}

STATUS current

DESCRIPTION

"This notification is sent when a user accepts End User License Agreement (EULA) for a license."

::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion  
}

STATUS current

DESCRIPTION

"This notification is sent when a license does not exist for a feature, but the feature is a mandatory feature and it should run. This notification will be sent out periodically to indicate that there is no

license installed for this feature and it needs to be done as soon as possible."

::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureEndDate  
}

STATUS current

DESCRIPTION

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

::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion,
            clmgmtFeatureEndDate
        }
```

STATUS

current

DESCRIPTION

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached."

```
::= { ciscoLicenseMgmtMIBNotifs 11 }
```

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion,
            clmgmtFeatureEndDate
        }
```

STATUS current

DESCRIPTION

"This notification will be sent after a subscription license of a feature completely expires. It will be sent once a day after the license has completely expired"

```
::= { ciscoLicenseMgmtMIBNotifs 12 }
```

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion,
            clmgmtFeatureValidityPeriodRemaining
        }
```

STATUS current

DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU) license transition is about to happen. The first notification will be sent 10 days before the transition and second notification will be sent 5 days before the transition."

```
::= { ciscoLicenseMgmtMIBNotifs 13 }
```

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion
        }
```

```
STATUS      current
DESCRIPTION
    "This notification is sent, when a feature license transitions
    from a evaluation to a Right to use (RTU) license."
::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance
```

```
ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 1 }
```

```
ciscoLicenseMgmtGroups OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 2 }
```

```
ciscoLicenseMgmtCompliance
MODULE-COMPLIANCE
STATUS      deprecated
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}
```

```
GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION
    "This group is mandatory for all devices where
    multiple license stores are supported."
::= { ciscoLicenseMgmtCompliances 1 }
```

```
ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
STATUS      current
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
```



```
    clmgmtLicenseDevCredGroup,  
    clmgmtLicenseNotificationEnableGroup,  
    clmgmtLicenseUsageNotifGroup,  
    clmgmtLicenseDeploymentNotifGroup,  
    clmgmtLicenseErrorNotifGroup  
}
```

```
GROUP      clmgmtLicenseStoreInformationGroup
```

```
DESCRIPTION
```

```
"This group is mandatory for all devices where  
multiple license stores are supported."
```

```
GROUP      clmgmtLicenseSubscriptionGroup
```

```
DESCRIPTION
```

```
"This object group is mandatory for all devices  
that  
support subscription licensing."
```

```
GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
```

```
DESCRIPTION
```

```
"This notification group is mandatory for all devices that  
support subscription licensing."
```

```
GROUP      clmgmtLicenseRTUGroup
```

```
DESCRIPTION
```

```
"This object group is mandatory for all devices that  
support Right to Use (RTU) licensing."
```

```
GROUP      clmgmtLicenseRTUUsageNotifGroup
```

```
DESCRIPTION
```

```
"This notification group is mandatory for all devices that  
support Right to use (RTU) licensing."
```

```
::= { ciscoLicenseMgmtCompliances 2 }
```

```
-- Units of Conformance
```

```
clmgmtLicenseDeploymentGroup OBJECT-GROUP
```

```
OBJECTS      {
```

```
    clmgmtNextFreeLicenseActionIndex,  
    clmgmtLicenseActionEntPhysicalIndex,  
    clmgmtLicenseActionTransferProtocol,  
    clmgmtLicenseServerAddressType,  
    clmgmtLicenseServerAddress,  
    clmgmtLicenseServerUsername,  
    clmgmtLicenseServerPassword,  
    clmgmtLicenseFile,  
    clmgmtLicenseStore,  
    clmgmtLicenseActionLicenseIndex,
```

clmgmtLicensePermissionTicketFile,  
clmgmtLicenseRehostTicketFile,  
clmgmtLicenseBackupFile,  
clmgmtLicenseStopOnFailure,  
clmgmtLicenseAction,  
clmgmtLicenseActionState,  
clmgmtLicenseJobQPosition,  
clmgmtLicenseActionFailCause,  
clmgmtLicenseActionStorageType,  
clmgmtLicenseActionRowStatus,  
clmgmtLicenseIndivActionState,  
clmgmtLicenseIndivActionFailCause,  
clmgmtLicenseAcceptEULA,  
clmgmtLicenseEULAFile

}

STATUS current

DESCRIPTION

"A collection of objects for performing license deployment  
i.e., license installation, clear and revoke"

::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

OBJECTS {

clmgmtLicenseStoreName,  
clmgmtLicenseStoreTotalSize,  
clmgmtLicenseStoreSizeRemaining

}

STATUS current

DESCRIPTION

"A collection of objects that provide information about  
license storages in the device."

::= { ciscoLicenseMgmtGroups 2 }

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";
}

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 uniquely identifies
the license. The
      platform should list all the licenses it supports being activated.";
  }

  leaf license-data {
    type union {
      type binary;
      type string;
    }
  }
}

```



```

description
  "The contents of the licence (if required) - which may be
  supplied as a binary blob, or a simple string value. If this
  value is considered sensitive, it may be read as an empty value.";
}

leaf active {
  type boolean;
  default false;
  description
    "The activation state of the license.";
}

}

grouping license-state {
  description
    "State data for license";

  leaf description {
    type string;
    description
      "The license description.";
  }

  leaf issue-date {
    type uint64;
    description
      "The date and time at which the license was issued, expressed as the
      number of nanoseconds since the Unix Epoch
      (January 1, 1970, 00:00 UTC).";
  }

  leaf expiration-date
  {
    type uint64;
    description
      "The date and time at which the license will expire, expressed as the
      number of nanoseconds since the Unix Epoch
      (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
  }

  leaf in-use {
    type boolean;
    description
      "The license is in use. Different from active. This states that the
      license is effectively being used in addition to being active. If
      license for feature X was activated but feature X is not being used,

```

```

        then this should be false.";
    }

    leaf expired {
        type boolean;
        description
            "The license has expired.";
    }

    leaf valid {
        type boolean;
        description
            "The license is valid. Can be activated in the system or platform.";
    }
}

grouping licenses-top {
    description
        "Top-level grouping for licenses.";

    container licenses {
        description
            "Enclosing container for list of licenses";

        list license {
            key "license-id";
            description
                "List of licenses.";

            leaf license-id {
                type leafref {
                    path "../config/license-id";
                }
                description
                    "Reference to license id list key";
            }
        }

        container config {
            description
                "Configuration data for license";

            uses license-config;
        }

        container state {

            config false;
        }
    }
}

```

```

    description
        "Operational state data for license.";

    uses license-config;
    uses license-state;
    }
}

}

grouping license-top {
    description
        "Top-level for the license model";

    container license {
        description
            "Container for license model";

        uses licenses-top;

    }
}

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

module CISCO-IMAGE-LICENSE-MGMT-MIB {

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

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

    import SNMP-FRAMEWORK-MIB {

```

```
prefix "snmp-framework";  
}
```

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

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

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

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

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

The image level licensing mechanism works as follows -

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

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the  
base advsecurity license.

- Customer upgrades to advipservicesk9 license.

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

Scenario 2:

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

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

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

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

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

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

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

```
typedef BootImageLevel {
  type binary {
    length "0..255";
  }
  description
    "This textual convention is used to define
    the image level.
```

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

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

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

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

```
    container ciscoImageLicenseMgmtMIBObjects {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1";
```

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

```
    container cilmNotifCntl {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
```

```

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

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

```

```

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

```

```

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

```

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

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

```

```

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

```

```

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

```

```

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

```

```

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

    Note: The configured next boot image level may not
    be the actual next boot image level. The actual next
    boot image level is denoted by cilmNextBootImageLevel
    which is determined based on the license availability.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}

```

```

leaf cilmNextBootImageLevel {
  type
  cisco-image-license-mgmt-mib:BootImageLevel;
  description

```



"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot image level is determined based on the availability of required license.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}
```

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

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

```
smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}
```

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

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

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

```
leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in
```

```
CISCO-LICENSE-MGMT-MIB.
```

Note: The license store index can be '0' if no license is installed for the next boot.";  
smiv2:max-access "read-only";  
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";  
}

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

```
  Note: The license index can be '0' if no license is  
  installed for the next boot.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";  
  }  
}  
}
```

```
container cilmImageLevelToLicenseMapTable {  
  description  
    "This table contains the mapping between different  
    image levels of each modules in the  
image and the  
    license required to run the modules at a particular  
    image level. This table can be used to identify the  
    different image levels and the appropriate licenses  
    required for each.";  
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";
```

```
list cilmImageLevelToLicenseMapEntry {  
  key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";  
  description  
    "An entry in the table containing the following  
    information.  
    - The image levels at the which the modules can be run.  
    - The license required to the run a module at a  
    particular image level.  
    - The priority of the license.";  
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";
```

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

```

    }
  }

  leaf cilmModuleName {
    type leafref {

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

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

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

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

  leaf cilmImageLicensePriority {
    type uint32 {
      range "1..255";
    }
  }

```

description

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses 11, 12 and 13 in the ascending order of

priority, then by default 11 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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# 1.349 attrs 22.1.0

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Found in path(s):

```
* /opt/cola/permits/1212165166_1681933120.379923/0/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-  
zip/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a/goprotogen/telemetry.pb.go
```

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

```
/* -----
```

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 \* September 2019  
 \*  
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 \* -----  
 \*/

Found in path(s):

\* /opt/cola/permits/1212165166\_1681933120.379923/0/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-  
 zip/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a/proto/commands/telemetry.proto

# 1.351 lib-pq 1.10.5

## 1.351.1 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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## 1.352 ca-certificates 20220614-r0

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# 1.353 gnupg 2.2.19-3ubuntu2.2

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```
# COPYING.other          *- org *-  
#+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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## 1.354 gnutls 3.6.13-2ubuntu1.7

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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```
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```

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```
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# 1.357 htop 3.2.0-r1

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## 1.358 base-files 11ubuntu5.6

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The End

## 1.359 webencodings 0.5.1

### 1.359.1 Available under license :

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python-webencodings

=====

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- \* Source code and issue tracker:  
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- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst
```

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```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()
```

```
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
```

```

license='BSD',
author='Simon Sapin',
author_email='simon.sapin@exyr.org',
maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language
:: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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\*\*\*\*

```
webencodings.mklabels
~~~~~
```

Regenerate the webencodings.labels module.

```
:copyright: Copyright 2012 by Simon Sapin
```

```
:license: BSD, see LICENSE for details.
```

\*\*\*\*

```
import json
```

```
try:
```

```
 from urllib import urlopen
```

```

except ImportError:
 from urllib.request import urlopen

def assert_lower(string):
 assert string == string.lower()
 return string

def generate(url):
 parts = ["\
"""

webencodings.labels
~~~~~

Map encoding labels to their name.

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"""

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
"""
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-
0.5.1/webencodings/mklabels.py

```



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Found in path(s):

- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/\_\_init\_\_.py
- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x\_user\_defined.py

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

Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
- \* License: BSD
- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content  
when interpreting something like ``Content-Type: text/html; charset=latin1``,  
tools need to use a particular set

of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually  
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence  
over any other encoding declaration.

The Encoding standard defines all such details so that implementations do  
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,

but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python

:: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.360 packaging 21.3

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Version 2.0, January 2004

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## 1.361 pep517 0.12.0

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## 1.362 idna 14.0.0

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## 1.363 libcrypt 4.4.10-10ubuntu4

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## 1.365 idna 3.3

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## 1.373 html5lib 1.0.1

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=====

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## 1.382 alpine-baselayout 3.2.0-r23



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```
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* Create mount directories in fstab  
*  
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*  
* usage: mkmntdirs [fstab]  
*  
*/
```

Found in path(s):

```
* /opt/cola/permits/1413259866_1664205148.023589/0/alpine-baselayout-3-2-0-r23-tgz/mkmntdirs.c
```

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

```
/opt/cola/permits/1413259866_1664205148.023589/0/alpine-baselayout-3-2-0-r23-tgz/z: binary file matches
```

Found in path(s):

```
* /bin/grep
```

## 1.383 textfsm 1.1.2

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## 1.385 util-linux 2.34 0.1ubuntu9.3

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<one

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

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

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                 |
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Written by: Philip Hazel

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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## 1.395 audit 2.8.5-2ubuntu6



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# 1.400 nats.go 1.13.1-0.20211018182449-f2416a8b1483

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## 1.401 sarama 1.30.0

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 * Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
*/opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

```
*/opt/cola/permits/1445162814_1666092919.423293/0/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.

## 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 Guller 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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-----  
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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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/*
```

```
* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

Not copyrighted -- provided to the public domain

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method

BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

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

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

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

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly

Mark Adler

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madler@alumni.caltech.edu

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

\*/

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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file `win32/DLL_FAQ.txt` in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* `win32/DLL_FAQ.txt` in the zlib distribution

4. `compress()` returns `Z_BUF_ERROR`.

Make sure that before the call of `compress()`, the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. `deflate()` or `inflate()` returns `Z_BUF_ERROR`.

Before making the call, make sure that `avail_in` and `avail_out` are not zero. When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h`. Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/`.

7. Why don't you use GNU `autoconf` or `libtool` or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org`. Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to `gzputc`"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:  
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast` directory for a possible solution to your problem.



28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's `contrib/puff` directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only

if the compiler's "long" type is  
32 bits. If the compiler's "long" type is  
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate

is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by

Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

```
/* gzappend -- command to append to a gzip file
```

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version 1.2, 11 Oct 2012

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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 (<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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minizip.c`. The compression library itself is composed of all source

files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [zlib@gzip.org](mailto:zlib@gzip.org), or to Gilles Vollant [info@winimage.com](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [markn@ieee.org](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [pmqs@cpan.org](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [amk@amk.ca](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in `.zip` format, written on top of zlib by Gilles Vollant [info@winimage.com](mailto:info@winimage.com), is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly     Mark Adler

jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.
```

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
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```

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.
```

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.
```

```
/* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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

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version 2.2, 14 Aug 2012

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
```

## 1.403 beego-beego 2.0.5

### 1.403.1 Available under license :

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## 1.404 py3-more-itertools 8.13.0-r0

### 1.404.1 Available under license :

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## 1.405 py3-parsing 2.4.7-r3

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## 1.407 wheel 0.38.1

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 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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## 1.412 ncurses 6.3\_p20220521-r0

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# 1.415 prometheus-client-model 0.2.0

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# 1.416 brotli 1.0.9-r6

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```

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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:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
{signature of Ty Coon}, 1 April 1989  
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public

License instead of this License.

# 1.420 zlib 1.2.11.dfsg-2ubuntu1.5

## 1.420.1 Available under license :

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

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

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/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.

```
/* 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):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/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.

## 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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work

for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> 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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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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /opt/cola/permits/1517885200_1671597604.893096/0/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.

```
/* 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):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c
```

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

```
/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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3. This notice may not be removed or altered from any source distribution.

```
Mark Adler  madler@alumni.caltech.edu
*/
```

Found in path(s):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/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.

```
/* 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):

```
*/opt/cola/permits/1517885200_1671597604.893096/0/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.

```
/* 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):

```
*/opt/cola/permits/1517885200_1671597604.893096/0/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.

```
/* 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 (<http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

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

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

Not copyrighted -- provided to the public domain

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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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\*/

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the

precompiled DLL are found in the zlib web site at <http://zlib.net/> .

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

### 5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

### 6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

### 7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

### 8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

### 9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*`

functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's \*Init\* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any



difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z\_FULL\_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z\_FULL\_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by

inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

### 33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

### 34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

### 35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always

works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since

they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
```

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):

```
* /opt/cola/permits/1517885200_1671597604.893096/0/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.

```
/* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/zconf.h.cmakein

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

```
/* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

```
/* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

```
/* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

```
/* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

```
/*
* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

## 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

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/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/msdos/Makefile.dj2

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/old/os2/Makefile.os2

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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 ( <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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* 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):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/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.

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1517885200\_1671597604.893096/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

## 1.421 prometheus-client 0.2.0

### 1.421.1 Available under license :

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## 1.422 fsnotify 1.5.1

### 1.422.1 Available under license :

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# 1.425 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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Author: Per Bothner

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```
/* A front-end using readline to "cook" input lines for Kawa.  
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*  
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## 1.427 python3.8 3.8.10-0ubuntu1~20.04.7

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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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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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| 2.1.3          | 2.1.2        | 2002      | 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 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                 |
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## 1.435 py3-six 1.16.0-r1

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## 1.437 libnss-nisplus 2.31

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

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

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

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.438 libnss-nis 2.31

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Version 2.1, February 1999

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# 1.439 google-golang-org-genproto 0.0.0-20210716133855-ce7ef5c701ea

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## 1.440 ansible 1.2

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```
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@setfilename gpl  
@settitle GNU General Public License  
@c man begin SEEALSO  
gfdl(7), fsf-funding(7).  
@c man end  
@c man begin COPYRIGHT  
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@c man end  
@end ignore  
@node Copying  
@c man begin DESCRIPTION  
@unnumbered GNU General Public License  
@center Version 3, 29 June 2007

@c This file is intended to be included in another file.

@display  
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```
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DRuntime: Runtime Library for the D Programming Language

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

**Preamble**

=====

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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

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

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

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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Any executables

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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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     |
| 2.7            | 2.6       | 2010      | PSF        | yes     |

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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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                 |
| 2.1.3          |              |           |            |                     |
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|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
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| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
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| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
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| 3.0   | 2.6   | 2008 | PSF | yes |
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## History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

## 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                 |
| 2.1.2          | 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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## 1.453 python-pip 20.0.2

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Any executables

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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



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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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
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| 2.6     | 2.5          | 2008 | PSF   | yes                 |
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| 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                 |
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| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
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## 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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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# 1.454 paramiko 2.11.0

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Any

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# 1.455 cryptography 37.0.4

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

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

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@(#) \$RCSfile: certdata.txt,v \$

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

## 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 |
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| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
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| 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 |
| 2.7   | 2.6   | 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.

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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                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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

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

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

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## 1.459 python-certifi 2021.10.8

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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

# 1.460 google-uuid 1.3.0

## 1.460.1 Available under license :

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dsymonds

cd1

wallclockbuilder

dansouza

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## 1.461 errors 0.9.1

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## 1.462 influxdb 1.9.4

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## 1.463 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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```
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```

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```
# Test code for the vcenter license module.
```

```
# Copyright: (c) 2017, Dag Wieers <dag@wieers.com>
```

```
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)
```

```
- 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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minor\_changes:

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

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

```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
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might be different; for a GUI interface, you would use an "about box".

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Version 3, 29 June 2007

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# 1.464 opentracing-go 1.2.0

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# 1.466 openssl 3.2.0

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# 1.467 python3.8 3.8.10-0ubuntu1~20.04.9

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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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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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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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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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## 1.478 python-pip 24.0

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with

an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

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All

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
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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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# 1.484 google-uuid 1.3.0

## 1.484.1 Available under license :

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# 1.485 xxhash 2.1.1



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## 1.486 goprotobuf 1.5.2

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Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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