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1.6 appdirs 1.4.4

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1.9 reflect2 1.0.1

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1.10 python-certifi 2020.12.5

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.15 libc-utils 0.7.2-r3

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1.16 ordered-set 4.0.2

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1.17 yaml 2.4.0

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1.18 six 1.16.0

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* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

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* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

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* Non-multipart encoding for POST requests

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* Bugfixes, Improvements and Test

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- * 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 <tomecek@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.

 - * Jorge Lopez Silva <<https://github.com/jalopezsilva>>
 - * Added support for forwarding requests through HTTPS proxies.

 - * Benno Rice <benno@jeamland.net>
 - * Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.

 - * Keiichi Kobayashi <abok.1k@gmail.com>
 - * Rename VerifiedHTTPSConnection to HTTPSConnection

 - * Himanshu Garg <garg_himanshu@outlook.com>
 - * DOC & LICENSE Update

 - * Hod Bin Noon <bin.noon.hod@gmail.com>
 - * Test improvements

 - * Chris Olufson <tycarac@gmail.com>
 - * Fix for connection not being released on HTTP redirect and response not preloaded

 - * [Bastiaan Bakker] <<https://github.com/bastiaanb>>
 - * Support for logging session keys
via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

 - * [Ezzeri Esa] <<https://github.com/savarin>>
 - * Ports and extends on types from typeshed

 - * [Your name or handle] <[email or website]>
 - * [Brief summary of your changes]
- MIT License

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1.20 python-certifi 2020.12.5

1.20.1 Available under license :

This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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

1.21 python-requests 2.25.0

1.21.1 Available under license :

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1.22 msgpack 1.0.0

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1.23 my-test-package 1.0

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1.24 msgpack-python 1.0.2

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1.25 pep517 0.9.1

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1.26 pyinotify 0.2.10

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1.27 urllib3 1.26.6

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1.28 tenacity 8.0.1

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1.29 pep517 0.11.0

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1.30 python-certifi 2020.11.08

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

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

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

1.31 idna 13.0.0

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1.34 python-pip 21.2.3

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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.

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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.
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@(#) \$RCSfile:

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1.35 packaging 21.0

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1.36 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.37 driver-postgres 1.0.8

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1.38 gorm-io/gorm 1.20.12

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1.39 antchfx-xmlquery 1.3.4

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1.40 jcmtturner-gokrb 7.5.0

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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
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
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lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the

following new or changed files:

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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copyright.rst

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1.41 antlr 0.0.0-20201029161626-9a95f0cc3d7c

1.41.1 Available under license :

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1.42 xml-path 2.0.0-20150820204837-860cbeca3ebc

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1.44 karalabe-cookiejar 1.0.0-20141109175019-e1490cae028c

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1.45 rsc.io-quote 1.5.2

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1.46 scheduler 0.0.0-20170109141437-ee74d2f83d82

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1.47 neo4j-neo4j-go-driver 4.2.3

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1.48 rardecode 1.1.0

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```
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* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/util/SamlUtils.java
*
/cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java
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1.50 beego 1.12.3

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mgo - MongoDB driver for Go

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1.52 pep517 0.12.0

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1.53 tomli 1.2.2

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1.54 golang-set 1.7.1

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1.55 grpc-go 1.42.0

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1.56 cron 3.0.1

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.\" */

.\"

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

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* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/compat.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/do_command.c
*

```

```

/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/job.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/user.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/config.h
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/cron.h
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/crontab.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/entry.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/cron.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/database.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/env.c
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/misc.c

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

```

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*

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

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

Read the comments at the top of the Makefile, then edit the area marked

'configurable

stuff'.

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

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

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

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

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

you should check this out.

say:

make all

su and say:

make install

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

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

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

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

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

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

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

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

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

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* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

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```
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* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/pathnames.h
* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/externs.h
```

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

Found in path(s):

*

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```

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):

* /vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/README

1.57 python-setuptools 57.4.0

1.57.1 Available under license :

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1.58 compress 1.13.6

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Files: s2/cmd/internal/filepathx/*

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1.59 chardet 3.0.4

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1.61 archiver 3.5.0

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

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1.68 procfs 0.0.11

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

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1.69 lz4 3.3.4

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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 "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 with in a stack), then value of `clmgmtLicenseStore` is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

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

- a. `clmgmtLicenseActionEntPhysicalIndex`
- b. `clmgmtLicenseActionLicenseIndex`

- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

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

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

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

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

5. Save all licenses to a backup storage

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

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

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

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

The following MIB objects need to be set exporting required EULAs

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

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

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

Entry can be deleted
except when clmgmtLicenseAction is set
to pending(2). All entries are volatile and are cleared
on agent reset.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```
leaf clmgmtLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a row in
    clmgmtLicenseActionTable. The management application should choose
    this value by reading clmgmtNextFreeLicenseActionIndex
    while creating an entry in this table. If an entry already
    exists with this index, the creation of the entry will not
    continue and error will be returned. The management application
    should read the value of clmgmtNextFreeLicenseActionIndex
    again and retry with the new value for this object.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}
```

```
leaf clmgmtLicenseActionEntPhysicalIndex
{
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    where the action is being executed. This object is mainly
    used in devices where one device is acting as a master and
    rest of the devices as slaves. The master device is
    responsible for SNMP communication with the management
```

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

```
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}
```

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

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

```
smiv2:defval "none";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}
```

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

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


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

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

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";  
}
```

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

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

```
leaf clmgmtLicenseFile {  
  type snmp-framework:SnmpAdminString {  
    length "0..255";
```

```

    }
    description
    "This object represents the location of the license file
    on the server identified by clmgmtLicenseServerAddress. This
    object MUST be set to a valid value before or concurrently
    with setting the value of the clmgmtLicenseAction object to
    install(2). For other operations, the value of this
    object is not considered, it is irrelevant.";
    smiv2:defaultval "";
    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:defaultval "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:defaultval "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 the permission

ticket and generates and
exports rehost ticket.

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

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

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

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

```
leaf clmgmtLicenseActionState {  
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;  
  description  
    "This object indicates the state of this license action.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";  
}
```

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

defer its license back up action to a later time. This
object will return a value of 0 if the action is not in
pending(2) state.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

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

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

leaf clmgmtLicenseActionRowStatus {
  type snmpv2-tc:RowStatus;
  description
    "This object indicates the the status of this table entry.
    Once the entry status is set to active(1), the associated
    entry cannot be modified until the action completes
    (clmgmtLicenseConfigCommandStatus is set to a value
    other than inProgress(3)). Once the action completes
    the only operation possible after this is to delete
    the row. It is recommended that the management application
    should delete entries in this table after reading
    the result. In order to prevent old entries from
    clogging the table, entries will be aged out, but an
    entry will never be deleted within 5 minutes of
    completion";

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

leaf clmgmtLicenseAcceptEULA {
  type boolean;
  description

```

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

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

smiv2:defval "false";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";

}

leaf clmgmtLicenseEULAFile {

type snmp-framework:SnmpAdminString {

length "0..255";

}

description

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action.";

smiv2:defval "";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";

}

}

}

container clmgmtLicenseActionResultTable {

description

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

list clmgmtLicenseActionResultEntry {

key "clmgmtLicenseActionIndex clmgmtLicenseNumber";

description

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

These entries are created immediately after action

execution when the action involves multiple licenses.

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

```
leaf clmgmtLicenseActionIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-
mib:clmgmtLicenseActionIndex";
  }
}
```

```
leaf clmgmtLicenseNumber {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object indicates the sequence number of this license
    in the list of licenses on which the action
is executed.
```

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

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
}
```

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

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



```

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

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

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

    leaf clmgmtLicenseStoreIndex {
      type uint32 {
        range "1..4294967295";
      }
      description
        "This object uniquely identifies a license store within
        the device.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
    }

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

```

```

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

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

container clmgmtLicenseDeviceInfoTable {
    description
        "This table contains objects that provide licensing related
        information at the device level. Entries will exist
        only for entities that support licensing. For example,
        if it is a stand alone device and supports licensing,
        then there will be only one entry in this table. If
        it is stackable switch then there will be multiple
        entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

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

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

```

```

}

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

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

  list clmgmtLicenseInfoEntry {
    key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
    description
      "An entry in clmgmtLicenseInfoTable. Each entry contains
      information about a license installed on the device. This
      entry gets created when a license is installed successfully.
      Management application can not create these entries directly, but
      will do so indirectly by executing license install action.
      Some of these entries may already exist that correspond to
      demo licenses even before management application installs any
      licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";

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

    leaf clmgmtLicenseStoreUsed {
      type uint32 {
        range "1..4294967295";
      }
    }
  }
}

```

```

description
"This object represents the license store that is used for
storing this license. This object will have the same value
as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
of the license store used.";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
}

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

leaf clmgmtLicenseFeatureName {
type snmp-framework:SnmpAdminString
{
length "0..128";
}
description
"This object indicates the name of the feature that is
using or can use this license. A license can be used by
only one feature. Examples of feature name are: 'IPBASE',
'ADVIPSERVICE'.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

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

leaf clmgmtLicenseType {
type enumeration {
enum "demo" {
value "1";

```

```

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

```

description

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

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.
 extension(2) - Extension(expiring) license.
 gracePeriod(3) - Grace period license.
 permanent(4) - permanent license, the license has no
 expiry date.
 paidSubscription(5) - Paid subscription licenses are the
 licenses

which are purchased by customers. These
 licenses have a start date and end date
 associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of

the product.

This is a Right To Use license which is not in evaluation mode for a limited time.";

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
```

```
}
```

```
leaf clmgmtLicenseCounted {
```

```
type boolean;
```

```
description
```

```
"This object indicates whether the license is counted license.
```

```
true(1) - counted license
```

```
false(2) - uncounted license";
```

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
```

```
}
```

```
leaf clmgmtLicenseValidityPeriod {
```

```
type uint32;
```

```
units "seconds";
```

```
description
```

```
"This object indicates the time period the license is valid for.
```

```
This object is applicable only if clmgmtLicenseType is demo(1),
```

```
or extension(2) or gracePeriod(3) or evalRightToUse(8). The
```

```
object will return
```

```
0 for other license types.";
```

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";  
}
```

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

```
leaf clmgmtLicenseExpiredPeriod {  
  type uint32;  
  units "seconds";  
  description  
    "This object indicates the elapsed time period since the license  
    expired. This object is applicable only if clmgmtLicenseType  
    is demo(1),  
or extension(2) or gracePeriod(3). Also, this  
    value of this object will be valid only after the license  
    expires. The object will return 0 for other license types  
    or before the license expiry.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";  
}
```

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

```
leaf clmgmtLicenseUsageCountRemaining {  
  type uint32;  
  description  
    "This object indicates the number of entities that can  
    still
```

use this license. This object is applicable only

```
    if clmgmtLicenseCounted is true(1).";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}
```

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

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

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

```
leaf clmgmtLicenseStatus {
    type enumeration {
        enum "inactive" {
            value "1";
        }
        enum "notInUse" {
            value "2";
        }
        enum "inUse" {
            value "3";
        }
        enum "expiredInUse" {
            value "4";
        }
        enum "expiredNotInUse" {
            value "5";
        }
        enum "usageCountConsumed" {
```



```

        value "6";
    }
}
description
"This object represents status of the license.

inactive(1)      - license is installed, but
                  not active.
notInUse(2)      - license is installed and
                  available for use.
inUse(3)         - the license is being used (by
                  a feature).
expiredInUse(4)
- license is expired but still
                  being held by the feature.
expiredNotInUse(5) - license is expired and not being
                  held by any feature.
usageCountConsumed(6) - number of entities using this
                  licenses has reached the allowed
                  limit, no new entities are allowed
                  to use this license.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

```

```

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

```

```

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

```

```

leaf clmgmtLicenseEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the end date for a subscription license.
        This object is applicable only when clmgmtLicenseType is
        paidSubscription(5), evaluationSubscription(6) or
        extensionSubscription (7). The object will contain an octet

```

```

        string of length 0 when it is not applicable.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
    }

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

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

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

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

        leaf clmgmtFeatureIndex {
            type uint32 {

```

```

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

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

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

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

        The object will contain 0 if
other types of license is used
        or if the feature does not use any license. If the
        feature is using multiple licenses, this period will

```

```

    represent the cumulative period remaining from all the
    licenses used by this feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

```

```

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

```

```

leaf clmgmtFeatureStartDate {

```

```

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

```

```

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

```

```

}

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

```

```

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

```

Once the request completes, the management application should retrieve the values of the objects of interest, and then

```

delete the entry. In order to prevent old entries from
clogging the table, entries will be aged out, but an entry
will never be deleted within 5 minutes of completion.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```

```

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

```

1. CREATE-AND-GO method

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

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

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request

for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting `clmgmtDevCredExportActionStatus` to `active(1)`.

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

The status of action execution can be known by querying

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

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

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

If an entry already exists with this

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

smiv2:max-access "not-accessible";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";

```
}
```

```
leaf clmgmtDevCredEntPhysicalIndex {
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    for which the device credentials are being retrieved. This
    object is mainly used in devices where one device is acting
```

as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

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

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

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

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

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

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

The format of this address depends on the value of the clmgmtDevCredServerAddressType object";

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

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

```

description

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

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

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

```

description

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

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
}

```

description

"This object represents file where device credentials needs to be exported to.";

```

smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";

```



```

}

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



| Command                 | Remarks                         |
|-------------------------|---------------------------------|
| noOp(1)                 | No operation will be performed. |
| getDeviceCredentials(2) | Exports device credentials";    |


    smiv2:default "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"
  }
}

```

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

Scenario 2:

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

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

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

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

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

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

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."
 REVISION "200710160000Z"
 DESCRIPTION
 "Initial version of this MIB module."
 ::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 2 }

BootImageLevel ::= TEXTUAL-CONVENTION
 STATUS current
 DESCRIPTION
 "This textual convention is used to define the image level.

 If the device is running at advipservices image level, then the boot image level will be 'advipservices'.
 SYNTAX OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION
 STATUS current
 DESCRIPTION
 "This textual convention is used to define the list of license names.
 If multiple licenses are present then this string will contain all the licenses seperated by the ',' character.

 If the license required to run a device at advipservices image level is advipservices and advsecurity, then the license name list will be 'advipservices,advsecurity'.
 SYNTAX OCTET STRING (SIZE (0..255))
 -- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE
 SYNTAX SEQUENCE OF CilmBootImageLevelEntry
 MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

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

INDEX {
entPhysicalIndex,
cilmModuleName
}

::= { cilmBootImageLevelTable 1 }

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

cilmModuleName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

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

- a base image module and a wireless module."

::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

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

::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

image level is determined based

on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

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

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

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

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

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

INDEX {
 entPhysicalIndex,
 cilmModuleName,
 cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

 cilmImageLicenseMapIndex Unsigned32,
 cilmImageLicenseImageLevel BootImageLevel,
 cilmImageLicenseName LicenseNameList,

```
    cilmImageLicensePriority Unsigned32
}
```

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level
mentioned by cilmImageLicenseImageLevel object of this
entry. The image level with the highest priority license
will be considered as the default level in the absense of
next boot image level configuration. For example if there
are three licenses l1, l2 and l3 in the ascending order of

priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

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

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

DEFVAL { false }

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

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

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

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

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

REFERENCE

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

```

    DEFVAL      { false }
    ::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel
    }
    STATUS      current
    DESCRIPTION
        "This notification is triggered when next boot image level
        is changed in the management entity. The current and
        configured image level are indicated by cilmCurrentImageLevel
        and cilmConfiguredBootImageLevel objects respectively."
    ::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER
    ::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER
    ::= { ciscoImageLicenseMgmtMIBConform 2 }

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

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

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,

```

```

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

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

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

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

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

IMPORTS

```

OBJECT-TYPE,
 MODULE-IDENTITY,
 Unsigned32,
 NOTIFICATION-TYPE
 FROM SNMPv2-SMI
 MODULE-COMPLIANCE,
 OBJECT-GROUP,
 NOTIFICATION-GROUP
 FROM SNMPv2-CONF
 TEXTUAL-CONVENTION,
 TruthValue,
 RowStatus,
 StorageType,
 DateAndTime
 FROM SNMPv2-TC
 SnmpAdminString
 FROM SNMP-FRAMEWORK-MIB
 entPhysicalIndex,
 PhysicalIndexOrZero
 FROM ENTITY-MIB
 InetAddressType,
 InetAddress
 FROM INET-ADDRESS-MIB
 ciscoMgmt
 FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY

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

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

DESCRIPTION

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

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

UDI

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

NODE LOCKED LICENSE:

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

NON-NODE LOCKED LICENSE:

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

METERED LICENSE:

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

EULA:

End User License Agreement.

EVALUATION LICENSE:

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

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

RIGHT TO USE (RTU) LICENSE:

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

locked, usage information is recorded on the device.

EXTENSION LICENSE:

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

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

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

PERMANENT LICENSE:

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

COUNTED LICENSE:

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

UNCOUNTED LICENSE:

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

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

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot

time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

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

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

LICENSE LINE:

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

LICENSE FILE:

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

DEVICE CREDENTIALS:

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

REHOST:

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

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows

a device to rehost its
licenses.

REHOST TICKET:

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

LICENSING PORTAL:

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

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

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

the new device to identify the device, gets license file.

6. Executes the license install action on the new

device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

This MIB module also defines various notifications that

will be triggered to asynchronously notify the management application of any critical events.

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

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

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
evalRightToUse
rightToUse
- o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
- o Added the following notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
clmgmtLicenseRTUGroup
clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
 - paidSubscription
 - evaluationSubscription
 - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicenseStartDate
 - clmgmtLicenseEndDate
- o Added following
 - objects to clmgmtLicensableFeatureTable
 - clmgmtFeatureStartDate
 - clmgmtFeatureEndDate
 - o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
 - o Added the following conformance groups
 - clmgmtLicenseSubscriptionGroup
 - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

 "Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.

It is not necessary to have values assigned contiguously.

The value for each license must remain constant

at least from one re-initialization of the entity's

network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex

convention. The latter defines a greater than zero value

used to identify a license in the managed system.

This

extension permits the additional value of zero. The value

zero is object-specific and must therefore be defined as

part of the description of any object which uses this

syntax. Examples of the usage of zero might include

situations where license was not present or unknown."

SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files

when performing license management. When the protocol is

set to local(2), local file system (flash or disk) is used.

Different agents may support different transfer protocols

and the management application is expected to some how determine

which protocol is supported and use."

SYNTAX INTEGER {

none(1),

local(2),

tftp(3),

ftp(4),

rcp(5),

http(6),

scp(7),

sftp(8)

}

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

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

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

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

successful(4) - action has completed successfully.

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

objects to know what is successful
and what has failed. These 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)
 }
}

clmgtNextFreeLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

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

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

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

1. Installing a license

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

- a. `clmgtLicenseActionTransferProtocol`
- b. `clmgtLicenseServerAddressType`

- c. 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 }

clmgtLicenseStoreSizeRemaining 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."

::= { clmgtLicenseStoreInfoEntry 4 }

-- License Device Info Table

clmgtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgtLicenseDeviceInfoEntry

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."

::= { clmgtLicenseInformation 2 }

clmgtLicenseDeviceInfoEntry OBJECT-TYPE

SYNTAX ClmgtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device."

INDEX { entPhysicalIndex }

::= { clmgtLicenseDeviceInfoTable 1 }

ClmgtLicenseDeviceInfoEntry ::= SEQUENCE {

clmgtDefaultLicenseStore Unsigned32

}

clmgtDefaultLicenseStore 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 not locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date

associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of the product.
This is a Right To Use license which is not in
evaluation mode for a limited time."

```
::=
{ clmgmtLicenseInfoEntry 5 }
```

clmgmtLicenseCounted OBJECT-TYPE

```
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates whether the license is counted
    license.
    true(1) - counted license
    false(2) - uncounted license"
::= { clmgmtLicenseInfoEntry 6 }
```

clmgmtLicenseValidityPeriod OBJECT-TYPE

```
SYNTAX      Unsigned32
UNITS       "seconds"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the time period the license is valid for.
    This object is applicable only if clmgmtLicenseType is demo(1),
    or extension(2) or gracePeriod(3) or evalRightToUse(8). The
    object will return 0 for other license types."
::= { clmgmtLicenseInfoEntry 7 }
```

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

```
SYNTAX      Unsigned32
UNITS       "seconds"
MAX-ACCESS  read-only
STATUS
```

current

DESCRIPTION

"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object indicates whether the user
 accepted
 End User License Agreement for this license.

true(1) - EULA accpeted
 false(2) - EULA not accepted"
 ::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION

"This object represents the user modifiable comments
 about the license. This object is initially populated
 with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {
 inactive(1),
 notInUse(2),
 inUse(3),
 expiredInUse(4),
 expiredNotInUse(5),
 usageCountConsumed(6)
 }

MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but
 not active.
 notInUse(2) - license is installed and
 available for use.
 inUse(3) - the license is being used (by
 a feature).
 expiredInUse(4) - license is expired but still
 being held by the feature.
 expiredNotInUse(5) - license is expired and not being
 held by any feature.
 usageCountConsumed(6) - number of entities using this
 licenses has reached the allowed
 limit, no new entities are allowed

to use this license."
 ::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object

indicates the start date for a subscription

license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license.

This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry
16 }

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

INDEX {
entPhysicalIndex,
clmgmtFeatureIndex
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

clmgmtFeatureIndex Unsigned32,
clmgmtFeatureName SnmpAdminString,
clmgmtFeatureVersion SnmpAdminString,
clmgmtFeatureValidityPeriodRemaining Unsigned32,
clmgmtFeatureWhatIsCounted SnmpAdminString,
clmgmtFeatureStartDate DateAndTime,
clmgmtFeatureEndDate DateAndTime,
clmgmtFeaturePeriodUsed Unsigned32

}

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number

of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."
 ::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

will get an error and the

process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

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

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management

application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets `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,`
 `clmgtDevCredServerUsername SnmpAdminString,`
 `clmgtDevCredServerPassword SnmpAdminString,`
 `clmgtDevCredExportFile 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 jnxLicenseRenewBeforeExpiration {
      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 "1.3.6.1.4.1.2636.3.63.1.1.1.1.2";  
}
```

```
leaf jnxLicenseDeviceId {  
  type snmpv2-tc:DisplayString;  
  description  
    "License Device Id ";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.3";  
}
```

```
leaf jnxLicenseType {  
  type enumeration {  
    enum "invalid" {  
      value "0";  
    }  
    enum "count-down" {  
      value "1";  
    }  
    enum "date-based" {  
      value "2";  
    }  
    enum "permanent" {  
      value "3";  
    }  
  }  
  description  
    "License type information";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.4";  
}
```

```
leaf jnxLicenseKeys {
```

```

type binary;
status deprecated;
description
    "***** THIS OBJECT IS DEPRECATED *****"
    "This object is deprecated,
    it displays all the license keys
    in the system.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.5";
}

leaf jnxLicenseKeyType {
    type enumeration
{
    enum "commercial" {
        value "1";
    }
    enum "trial" {
        value "2";
    }
    enum "demo" {
        value "3";
    }
    enum "emergency" {
        value "4";
    }
    enum "lab" {
        value "5";
    }
    enum "education" {
        value "6";
    }
}
    description
        "License key type";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.6";
}
}

container jnxLicenseFeatureListTable {
    description
        "list of features supporting Licensing.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";

    list jnxLicenseFeatureListEntry {
        key "jnxLicenseFeatureId";
    }
}

```

```

description
"A row of licensed features.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

leaf jnxLicenseFeatureId {
    type int32;
    description
        "Feature Id to point an entry in this table";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
}

leaf jnxLicenseFeatureName {
    type snmpv2-tc:DisplayString;
    description
        "Feature Name";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
}

leaf jnxLicenseFeatureDescr {
    type snmpv2-tc:DisplayString;
    description
        "Feature Name";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
}

leaf jnxLicenseFeatureLicenseId {
    type snmpv2-tc:DisplayString;
    description
        "Feature License Id";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
}

leaf jnxLicenseFeatureLicenseUsed {
    type int32;
    description

    "Licenses Used";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
}

leaf jnxLicenseFeatureLicenseInstalled {
    type int32;
    description

```

```

    "Licenses Installed";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
}

leaf jnxLicenseFeatureLicenseNeeded {
    type int32;
    description
        "Licenses Needed";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
}
}
}
}

notification jnxLicenseGraceExpired {
    description
        "The SNMP trap that is generated when the license grace period for
        feature identified by jnxLicenseFeatureName is expired";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

    container object-1 {

        leaf jnxLicenseFeatureId {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
            }
        }

        leaf jnxLicenseFeatureName {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
            }
        }
    }
}

notification jnxLicenseGraceAboutToExpire {
    description
        "The SNMP trap that is generated when the license grace period for
        feature identified by jnxLicenseFeatureName is about to expire";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";

    container object-1 {

```

```

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }
}

```

```

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

```

```

notification jnxLicenseAboutToExpire {
  description
    "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";
}

```

```

container object-1 {

```

```

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }
}

```

```

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

```

```

notification jnxLicenseInfringeCumulative
{
  description
    "The SNMP trap that is generated when the feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";
}

```

```

container object-1 {

    leaf jnxLicenseFeatureId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
        }
    }

    leaf jnxLicenseFeatureName {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
        }
    }
}

notification jnxLicenseInfringeSingle {
    description
        "The SNMP trap that is generated when the license for feature
        identified by jnxLicenseFeatureName is not valid i.e. either
        expired or
        not available.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

    container object-1 {

        leaf jnxLicenseFeatureId {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
            }
        }

        leaf jnxLicenseFeatureName {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
            }
        }
    }

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

```

```

not available.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

container object-1 {

    leaf jnxLicenseFeatureId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
        }
    }

    leaf jnxLicenseFeatureName {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
        }
    }
}

container object-2 {

    leaf jnxLicenseFeatureId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
        }
    }

    leaf jnxLicenseFeatureLicenseId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
        }
    }
}

container object-3
{

    leaf jnxLicenseId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
        }
    }

    leaf jnxLicenseKeyType {

```

```

    type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
    }
}
}
}

smiv2:alias "jnxLicenseMIB" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
}

smiv2:alias "jnxLicenseNotifications" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
}

smiv2:alias "jnxLicenseObjects" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
}

smiv2:alias "jnxLicenseInstallObjects" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
}

smiv2:alias "jnxLicenseSettings" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
}

}
module openconfig-license {

    yang-version "1";

    namespace "http://openconfig.net/yang/license";

    prefix "oc-license";

    import openconfig-extensions { prefix oc-ext; }

    organization "OpenConfig working group";

    contact
        "OpenConfig working group
        www.openconfig.net";

    description
        "This module defines configuration and operational
        state data for licenses.";

```



```

oc-ext:openconfig-version "0.2.0";

revision "2020-04-22" {
  description
    "Make license-data a union of a string or binary.";
  reference "0.2.0";
}

revision "2020-01-07" {
  description
    "Initial revision";
  reference "0.1.0";
}

// OpenConfig specific extensions for module metadata.
oc-ext:regexp-posix;
oc-ext:catalog-organization "openconfig";
oc-ext:origin "openconfig";

grouping license-config {
  description
    "Configuration data for license";

  leaf license-id {
    type string;
    description
      "License ID. A string that uniquely identifies
the license. The
platform should list all the licenses it supports being activated.";
  }

  leaf license-data {
    type union {
      type binary;
      type string;
    }
    description
      "The contents of the licence (if required) - which may be
supplied as a binary blob, or a simple string value. If this
value is considered sensitive, it may be read as an empty value.";
  }

  leaf active {
    type boolean;
    default false;
    description

```

```

    "The activation state of the license.";
}

}

grouping license-state {
    description
    "State data for license";

    leaf description {
        type string;
        description
        "The license description.";
    }

    leaf issue-date {
        type uint64;
        description
        "The date and time at which the license was issued, expressed as the
        number of nanoseconds since the Unix Epoch
        (January 1, 1970, 00:00 UTC).";
    }

    leaf expiration-date
    {
        type uint64;
        description
        "The date and time at which the license will expire, expressed as the
        number of nanoseconds since the Unix Epoch
        (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
    }

    leaf in-use {
        type boolean;
        description
        "The license is in use. Different from active. This states that the
        license is effectively being used in addition to being active. If
        license for feature X was activated but feature X is not being used,
        then this should be false.";
    }

    leaf expired {
        type boolean;
        description
        "The license has expired.";
    }

    leaf valid {

```

```

    type boolean;
    description
      "The license is valid. Can be activated in the system or platform.";
  }
}

grouping licenses-top {
  description
    "Top-level grouping for licenses.";

  container licenses {
    description
      "Enclosing container for list of licenses";

    list license {
      key "license-id";
      description
        "List of licenses.";

      leaf license-id {
        type leafref {
          path "../config/license-id";
        }
        description
          "Reference to license id list key";
      }

      container config {
        description
          "Configuration data for license";

        uses license-config;
      }

      container state {

        config false;

        description
          "Operational state data for license.";

        uses license-config;
        uses license-state;
      }
    }
  }
}

```

```

}

grouping license-top {
  description
    "Top-level for the license model";

  container license {
    description
      "Container for license model";

    uses licenses-top;

  }
}

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

module CISCO-IMAGE-LICENSE-MGMT-MIB {

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

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

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

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

  organization
    "Cisco Systems Inc.";

```

contact

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

description

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

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

The image level licensing mechanism works as follows -

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

Scenario 1:

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

that are part of the

base advsecurity license.

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

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the

base advipservices license.

- No upgrades available for advipservices license.

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

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

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

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

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

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

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

```
typedef BootImageLevel {  
    type binary {  
        length "0..255";  
    }  
    description  
        "This textual convention is used to define  
        the image level.
```

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

```
typedef LicenseNameList  
{  
    type binary {  
        length "0..255";
```

```

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

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

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

    container ciscoImageLicenseMgmtMIBObjects {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1";

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

    container cilmNotifCntl {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

                If set to TRUE, cilmBootImageLevelChanged notification
                will be generated. It is the responsibility of the
                management entity to ensure that the SNMP administrative

```

```

        model is configured in such a way as to allow the
        notification to be delivered.";
reference
    "See also RFC3413 for explanation that notifications
    are under the ultimate control of the MIB module in
    this document.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
    }
}

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

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

            - Current image level.
            - Configured image level for the next boot.
            - Actual image level for the next boot.
            - License store index for the current license.
            - License index of the current license.
            - License store index for the next boot license.
            - License index of the next boot license.";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

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

        leaf cilmModuleName {
            type snmp-framework:SnmpAdminString;

```


description

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

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}
```

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

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

    Note: The configured next boot image level may not
    be the actual next boot image level. The actual next
    boot image level is denoted by cilmNextBootImageLevel
    which is determined based on the license availability.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}
```

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

```
leaf cilmCurrentLicenseStoreIndex {
  type uint32;
```

description

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

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";

}

leaf cilmCurrentLicenseIndex {

type uint32;

description

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

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";

}

leaf cilmNextBootLicenseStoreIndex {

type uint32;

description

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

CISCO-LICENSE-MGMT-MIB.

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";

}

leaf cilmNextBootLicenseIndex {

type uint32;

description

"This object indicates the license index of the next boot

license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
}
}

container cilmImageLevelToLicenseMapTable {
description
"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

list cilmImageLevelToLicenseMapEntry {
key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
description
"An entry in the table containing the following information.
- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

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

leaf cilmModuleName {
type leafref {

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

```
}
```

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

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

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

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

```
    priority, then by default l1 will be the level at which the  
    module will be running. If the next boot level is configured
```

```

        then the configuration will override the priority. The highest
        priority license supports a feature set which is a super set of
        all other licenses.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
    }
}
}
}

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

    container object-1 {

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

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

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

    container object-2 {

        leaf entPhysicalIndex {
            type leafref {

```

```

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

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

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

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

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

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

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

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

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

smiv2:alias "cilmModuleGroups" {

```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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Andrew Fort <afort@arista.com>
Rob Shakir <robjs@google.com>
--
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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

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

jnxLicenseMIB    MODULE-IDENTITY
    LAST-UPDATED   "201007090000Z"
    ORGANIZATION   "Juniper Networks, Inc."
    CONTACT-INFO
        "Juniper Technical Assistance Center
        Juniper Networks, Inc.
        1194 N. Mathilda Avenue
        Sunnyvale, CA 94089
        E-mail: support@juniper.net"
    DESCRIPTION

```

```

    "Implementation of enterprise specific MIB
    for license commands and configuration."
REVISION  "201007090000Z"  -- Jul 09, 2010
DESCRIPTION
    "Initial version."
 ::= { jnxLicenseMibRoot 1 }

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

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

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

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

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

JnxLicenseInstallEntry ::= SEQUENCE {
    jnxLicenseId      DisplayString,
    jnxLicenseVersion  INTEGER,
    jnxLicenseDeviceId DisplayString,
    jnxLicenseType     INTEGER,
    jnxLicenseKeys     OCTET STRING
}

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

```


jnxLicenseVersion OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License Version information"

::= { jnxLicenseInstallEntry 2 }

jnxLicenseDeviceId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License Device Id "

::= { jnxLicenseInstallEntry
3 }

jnxLicenseType OBJECT-TYPE

SYNTAX INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License type information"

::= { jnxLicenseInstallEntry 4 }

jnxLicenseKeys OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION "License Keys"

::= { jnxLicenseInstallEntry 5 }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseFeatureListEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "list of features supporting Licensing."

::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE

SYNTAX JnxLicenseFeatureListEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "A row of licensed features."

INDEX { jnxLicenseFeatureId
}

::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {

```

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

```

jnxLicenseFeatureId OBJECT-TYPE

```

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

```

jnxLicenseFeatureName OBJECT-TYPE

```

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

```

jnxLicenseFeatureDescr OBJECT-TYPE

```

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

```

jnxLicenseFeatureLicenseId OBJECT-TYPE

```

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

```

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

```

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

```

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

```

SYNTAX      INTEGER
MAX-ACCESS   read-only

```

```

STATUS      current
DESCRIPTION  "Licenses Installed"
::= { jnxLicenseFeatureListEntry 6 }

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

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

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

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

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

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

```

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

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
"The SNMP trap that is generated when the license period for

feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
"The SNMP trap that is generated when the feature is used more
times than as specified in number of licenses allowed for feature
as identified by jnxLicenseFeatureName"
::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE
OBJECTS { jnxLicenseFeatureName }
STATUS current
DESCRIPTION
"The SNMP trap that is generated when the license for feature
identified by jnxLicenseFeatureName is not valid i.e. either expired or
not available."
::= { jnxLicenseNotifications 5 }

END

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1.83 robot-oam-grpc 0.0.0-20210923091523-4e2f9f7191f9

1.83.1 Available under license :

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

/* -----

```

* Crosswork CDG Output format - protobuf definitions
*
* September 2019
*
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* -----
*/

```

Found in path(s):

```

* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-
4e2f9f7191f92f92679b0d6728f479cb6cfc776a/proto/commands/telemetry.proto

```

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

```

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```

Found in path(s):

```

* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-
4e2f9f7191f92f92679b0d6728f479cb6cfc776a/goprotogen/telemetry.pb.go

```

1.84 robot-cw-distributed-cache-distributed-cache-go-client 0.0.0-20220530051517-4cafcb82e8c8

1.84.1 Available under license :

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

```

/opt/cola/permits/1340875667_1758710027.0684392/0/cw-distributed-cache-release700-zip/cw-distributed-cache-release700/distributed-cache-service/src/main/java/com/cisco/cw/distributed/cache/service/DistributedServiceImpl.javapackage

```

com.cisco.cw.distributed.cache.service;

Found in path(s):

*

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

package com.cisco.cw.distributed.cache.monitor;

Found in path(s):

* /cw-distributed-cache-release700-zip/cw-distributed-cache-release700/distributed-cache-service/src/main/java/com/cisco/cw/distributed/cache/monitor/MonitorTask.java

1.85 gosnmp 1.32.0

1.85.1 Available under license :

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1.88 gokrb5 8.4.2

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1.90 py3-contextlib 21.6.0-r1

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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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2.5.1	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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1.91 github.com/antchfx/xmlquery 1.3.9

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1.92 protobuf 1.27.1

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A. HISTORY OF THE SOFTWARE

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

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

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

All

Python releases are Open Source (see <http://www.opensource.org> for
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releases have also been GPL-compatible; the table below summarizes
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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.104 go-systemd 22.3.2

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1.105 x-text 0.3.7

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1.106 x-sys 0.0.0-20220114195835-da31bd327af9

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1.107 py3-requests 2.26.0-r1

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1.108 jackc-chunkreader 2.0.1

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1.109 influxdb 1.9.4

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1.110 cachecontrol 0.12.10

1.110.1 Available under license :

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1.111 coreos-semver 0.3.0

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1.112 x-text 0.3.7

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1.113 py3-cachecontrol 0.12.10-r0

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Metadata-Version: 2.1

Name: CacheControl

Version: 0.12.10

Summary: http-lib2 caching for requests

Home-page: <https://github.com/ionrock/cachecontrol>

Author: Eric Larson

Author-email: eric@ionrock.org

License: UNKNOWN

Description: ..

SPDX-FileCopyrightText: SPDX-FileCopyrightText: 2015 Eric Larson

SPDX-License-Identifier: Apache-2.0

=====
CacheControl
=====

.. image:: <https://img.shields.io/pypi/v/cachecontrol.svg>
:target: <https://pypi.python.org/pypi/cachecontrol>
:alt: Latest Version

.. image:: <https://travis-ci.org/ionrock/cachecontrol.png?branch=master>
:target: <https://travis-ci.org/ionrock/cachecontrol>

CacheControl is a port of the caching algorithms in http-lib2_ for use with requests_ session object.

It was written because http-lib2's better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.

Quickstart

=====

.. code-block:: python

```
import requests

from cachecontrol import CacheControl

sess = requests.session()
cached_sess = CacheControl(sess)

response = cached_sess.get('http://google.com')
```

If the URL contains any caching based headers, it will cache the result in a simple dictionary.

For more info, check out the docs_

```
.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/
```

Keywords: requests http caching web

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Web

Environment

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

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Topic :: Internet :: WWW/HTTP

Requires-Python: >=3.6

Provides-Extra: redis

Provides-Extra: filecache

Found in path(s):

* /cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/PKG-INFO

* /cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO

1.114 prometheus-client 0.2.0

1.114.1 Available under license :

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1.115 attr 2.5.1-r1

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Version 2.1, February 1999

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1.116 ulikunitz-xz 0.5.7

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package main

```
import (  
    "bufio"  
    "bytes"  
    "flag"  
    "fmt"  
    "io"  
    "log"  
    "os"  
    "path/filepath"  
    "strings"  
)
```

```
const crUsageString = `xb copyright [options] <path>....
```

The xb copyright command adds a copyright remark to all go files below path.

-h prints this message and exits

,

```
func crUsage(w io.Writer) {  
    fmt.Fprint(w, crUsageString)  
}
```

```
const copyrightText = `  
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license that can be found in the LICENSE file.  
,
```

```
func goComment(text string) string {  
    buf := new(bytes.Buffer)  
    scanner := bufio.NewScanner(strings.NewReader(text))  
    var err error  
    for scanner.Scan() {  
        s := strings.TrimSpace(scanner.Text())  
        if len(s) == 0 {  
            continue  
        }  
        if _, err = fmt.Fprintln(buf, "///", s); err != nil {  
            panic(err)  
        }  
    }
```

```

}
if err
= scanner.Err(); err != nil {
    panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
    panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprint(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
    }
}

```

```

if del {
    s := strings.TrimSpace(txt)
    if len(s) == 0 {
        del = false
    }
    continue
}
fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }
}

```



```

}

for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
    if err = filepath.Walk(path, walkCopyrights); err != nil {
        log.Fatalf("%s error %s", path, err)
    }
}
}
package main

```

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1.117 sqlite 3.36.0-r0

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```
/* This will be more informative in a later version. */
```

Found in path(s):

```
* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/shell.c
```

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```
/*
```

```
** CAPI3REF: Configuration Options
```

```
** KEYWORDS: {configuration option}
```

```
**
```

```
** These constants are the available integer configuration options that
```

```
** can be passed as the first argument to the [sqlite3_config()] interface.
```

```
**
```

** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutexing and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite
 is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** mutexing on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Serialized. In other words, this option enables
 ** all mutexes including the recursive
 ** mutexes on [database connection] and [prepared statement] objects.
 ** In this mode (which is the default when SQLite is compiled with
 ** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
 ** to [database connections] and [prepared statements] so that the
 ** application is free to use the same [database connection] or the
 ** same [prepared statement] in different threads at the same time.
 ** ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to set the

Serialized [threading mode] and

**** [sqlite3_config()] will return [SQLITE_ERROR] if called with the**

**** SQLITE_CONFIG_SERIALIZED configuration option.</dd>**

**** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_MALLOC option takes a single argument which is**

**** a pointer to an instance of the [sqlite3_mem_methods] structure.**

**** The argument specifies**

**** alternative low-level memory allocation routines to be used in place of**

**** the memory allocation routines built into SQLite.)^ ^SQLite makes**

**** its own private copy of the content of the [sqlite3_mem_methods] structure**

**** before the [sqlite3_config()] call returns.</dd>**

**** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_GETMALLOC option takes a single argument which**

**** is a pointer to an instance of the [sqlite3_mem_methods] structure.**

**** The [sqlite3_mem_methods]**

**** structure is filled with the currently defined memory allocation routines.)^**

**** This option can**

be used to overload the default memory allocation

**** routines with a wrapper that simulations memory allocation failure or**

**** tracks memory usage, for example. </dd>**

**** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of**

**** type int, interpreted as a boolean, which if true provides a hint to**

**** SQLite that it should avoid large memory allocations if possible.**

**** SQLite will run faster if it is free to make large memory allocations,**

**** but some application might prefer to run slower in exchange for**

**** guarantees about memory fragmentation that are possible if large**

**** allocations are avoided. This hint is normally off.**

**** </dd>**

**** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>**

**** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,**

**** interpreted as a boolean, which enables or disables the collection of**

**** memory allocation statistics. ^When memory allocation**

statistics are

**** disabled, the following SQLite interfaces become non-operational:**

**** **

**** [sqlite3_hard_heap_limit64()]**

**** [sqlite3_memory_used()]**

**** [sqlite3_memory_highwater()]**

**** [sqlite3_soft_heap_limit64()]**

**** [sqlite3_status64()]**

****)^**

**** ^Memory allocation statistics are enabled by default unless SQLite is**

**** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory**

** allocation statistics are disabled by default.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
 ** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
 ** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
 ** that SQLite can use for the database page cache with the default page
 ** cache implementation.
 ** This configuration option is a no-op if an application-defined page
 ** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
 **
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
 ** 8-byte aligned memory (pMem), the size of each page cache line (sz),
 ** and the number of cache lines (N).
 ** The sz argument should be the size of the largest database page
 ** (a power of two between 512 and 65536) plus some extra bytes for each
 ** page header. ^The number of extra bytes needed by the page header
 ** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
 ** ^It is harmless, apart from the wasted memory,
 ** for the sz parameter to be larger than necessary. The pMem
 ** argument must be either a NULL pointer or a pointer to an 8-byte
 ** aligned block of memory of at least sz*N bytes, otherwise
 ** subsequent behavior is undefined.
 ** ^When pMem is not NULL, SQLite will strive to use the memory provided
 ** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
 ** a page cache line is larger than sz bytes or if all of the pMem buffer
 ** is exhausted.
 ** ^If pMem is NULL and N is non-zero, then
 each database connection
 ** does an initial bulk allocation for page cache memory
 ** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
 ** of -1024*N bytes if N is negative, . ^If additional
 ** page cache memory is needed beyond what is provided by the initial
 ** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
 ** additional cache line. </dd>
 **
 ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
 ** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
 ** that SQLite will use for all of its dynamic memory allocation needs
 ** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
 ** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
 ** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
 ** [SQLITE_ERROR] if invoked otherwise.
 ** ^There are three arguments to SQLITE_CONFIG_HEAP:
 ** An 8-byte aligned pointer to the memory,

** the number of bytes in the memory buffer, and the minimum allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
 ** to using its default memory allocator (the system malloc() implementation),
 ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
 ** memory pointer is not NULL then the alternative memory
 ** allocator is engaged to handle all of SQLite's memory allocation needs.
 ** The first pointer (the memory pointer) must be aligned to an 8-byte
 ** boundary or subsequent behavior of SQLite will be undefined.
 ** The minimum allocation size is capped at 2**12. Reasonable values
 ** for the minimum allocation size are 2**5 through 2**8.</dd>
 **
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
 ** pointer to an instance of the [sqlite3_mutex_methods] structure.
 ** The argument specifies alternative low-level mutex routines to be used
 ** in place of the mutex routines built into SQLite.)^ ^SQLite makes a copy of
 ** the
 content of the [sqlite3_mutex_methods] structure before the call to
 ** [sqlite3_config()] returns. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMUTEX option takes a single argument which
 ** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
 ** [sqlite3_mutex_methods]
 ** structure is filled with the currently defined mutex routines.)^
 ** This option can be used to overload the default mutex allocation
 ** routines with a wrapper used to track mutex usage for performance
 ** profiling or testing, for example. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing
 subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
 ** <dd> ^The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
 ** the default size of lookaside memory on each [database connection].
 ** The first argument is the
 ** size of each lookaside buffer slot and the second is the number of
 ** slots allocated to each database connection.)^ ^The [SQLITE_CONFIG_LOOKASIDE]
 ** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
 ** option to [sqlite3_db_config()] can be used to change the lookaside
 ** configuration on individual connections.)^ </dd>

****** `[[SQLITE_CONFIG_PCACHE2]]` <dt>`SQLITE_CONFIG_PCACHE2`</dt>
****** <dd> [^](The `SQLITE_CONFIG_PCACHE2` option takes a single argument which is
****** a pointer to an `[sqlite3_pcache_methods2]` object. This object specifies
****** the interface to a custom
 page cache implementation.)[^]
****** [^]SQLite makes a copy of the `[sqlite3_pcache_methods2]` object.</dd>

****** `[[SQLITE_CONFIG_GETPCACHE2]]` <dt>`SQLITE_CONFIG_GETPCACHE2`</dt>
****** <dd> [^](The `SQLITE_CONFIG_GETPCACHE2` option takes a single argument which
****** is a pointer to an `[sqlite3_pcache_methods2]` object. SQLite copies of
****** the current page cache implementation into that object.)[^] </dd>

****** `[[SQLITE_CONFIG_LOG]]` <dt>`SQLITE_CONFIG_LOG`</dt>
****** <dd> The `SQLITE_CONFIG_LOG` option is used to configure the SQLite
****** global [error log].
****** ([^]The `SQLITE_CONFIG_LOG` option takes two arguments: a pointer to a
****** function with a call signature of `void (*)(void*,int,const char*)`,
****** and a pointer to void. [^]If the function pointer is not NULL, it is
****** invoked by `[sqlite3_log()]` to process each logging event. [^]If the
****** function pointer is NULL, the `[sqlite3_log()]` interface becomes a no-op.
****** [^]The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is
****** passed through as the first parameter
 to the application-defined logger
****** function whenever that function is invoked. [^]The second parameter to
****** the logger function is a copy of the first parameter to the corresponding
****** `[sqlite3_log()]` call and is intended to be a [result code] or an
****** [extended result code]. [^]The third parameter passed to the logger is
****** log message after formatting via `[sqlite3_snprintf()]`.
****** The SQLite logging interface is not reentrant; the logger function
****** supplied by the application must not invoke any SQLite interface.
****** In a multi-threaded application, the application-defined logger
****** function must be threadsafe. </dd>

****** `[[SQLITE_CONFIG_URI]]` <dt>`SQLITE_CONFIG_URI`
****** <dd>[^](The `SQLITE_CONFIG_URI` option takes a single argument of type `int`.
****** If non-zero, then URI handling is globally enabled. If the parameter is zero,
****** then URI handling is globally disabled.)[^] [^]If URI handling is globally
****** enabled, all filenames passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`,
****** `[sqlite3_open16()]`
 or
****** specified as part of `[ATTACH]` commands are interpreted as URIs, regardless
****** of whether or not the `[SQLITE_OPEN_URI]` flag is set when the database
****** connection is opened. [^]If it is globally disabled, filenames are
****** only interpreted as URIs if the `SQLITE_OPEN_URI` flag is set when the
****** database connection is opened. [^](By default, URI handling is globally
****** disabled. The default value may be changed by compiling with the
****** `[SQLITE_USE_URI]` symbol defined.)[^]

**
 ** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
 ** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
 ** argument which is interpreted as a boolean in order to enable or disable
 ** the use of covering indices for full table scans in the query optimizer.
 ** ^The default setting is determined
 ** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
 ** if that compile-time option is omitted.
 ** The ability to disable the use of covering indices
 for full table scans
 ** is because some incorrectly coded legacy applications might malfunction
 ** when the optimization is enabled. Providing the ability to
 ** disable the optimization allows the older, buggy application code to work
 ** without change even with newer versions of SQLite.
 **
 ** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
 ** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
 ** <dd> These options are obsolete and should not be used by new code.
 ** They are retained for backwards compatibility but are now no-ops.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_SQLLOG]]
 ** <dt>SQLITE_CONFIG_SQLLOG
 ** <dd>This option is only available if sqlite is compiled with the
 ** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
 ** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
 ** The second should be of type (void*). The callback is invoked by the library
 ** in three separate circumstances, identified by the value passed as the
 **
 fourth parameter. If the fourth parameter is 0, then the database connection
 ** passed as the second argument has just been opened. The third argument
 ** points to a buffer containing the name of the main database file. If the
 ** fourth parameter is 1, then the SQL statement that the third parameter
 ** points to has just been executed. Or, if the fourth parameter is 2, then
 ** the connection being passed as the second parameter is being closed. The
 ** third parameter is passed NULL In this case. An example of using this
 ** configuration option can be seen in the "test_sqllog.c" source file in
 ** the canonical SQLite source tree.</dd>
 **
 ** [[SQLITE_CONFIG_MMAP_SIZE]]
 ** <dt>SQLITE_CONFIG_MMAP_SIZE
 ** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
 ** that are the default mmap size limit (the default setting for
 ** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
 ** ^The default setting can be overridden by each database connection using
 ** either
 the [PRAGMA mmap_size] command, or by using the
 ** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size

** will be silently truncated if necessary so that it does not exceed the
 ** compile-time maximum mmap size set by the
 ** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
 ** ^If either argument to this option is negative, then that argument is
 ** changed to its compile-time default.
 **
 ** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
 ** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
 ** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
 ** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
 ** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
 ** that specifies the maximum size of the created heap.
 **
 ** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
 ** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
 ** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
 ** is a pointer to an integer and writes into that integer the number of extra
 **
 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
 ** The amount of extra space required can change depending on the compiler,
 ** target platform, and SQLite version.
 **
 ** [[SQLITE_CONFIG_PMASZ]]
 ** <dt>SQLITE_CONFIG_PMASZ
 ** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
 ** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
 ** sorter to that integer. The default minimum PMA Size is set by the
 ** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
 ** to help with sort operations when multithreaded sorting
 ** is enabled (using the [PRAGMA threads] command) and the amount of content
 ** to be sorted exceeds the page size times the minimum of the
 ** [PRAGMA cache_size] setting and this value.
 **
 ** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
 ** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
 ** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
 ** becomes the [statement journal] spill-to-disk threshold.
 **
 [Statement journals] are held in memory until their size (in bytes)
 ** exceeds this threshold, at which point they are written to disk.
 ** Or if the threshold is -1, statement journals are always held
 ** exclusively in memory.
 ** Since many statement journals never become large, setting the spill
 ** threshold to a value such as 64KiB can greatly reduce the amount of
 ** I/O required to support statement rollback.
 ** The default value for this setting is controlled by the
 ** [SQLITE_STMTJRNL_SPILL] compile-time option.
 **

```

** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that
    its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
    never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
*****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.

```

```

** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
*****
**
** This file
contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory
Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
**/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
**/

```

Found

in path(s):

* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.c

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

/*

** CAPI3REF: Configuration Options

** KEYWORDS: {configuration option}

**

** These constants are the available integer configuration options that

** can be passed as the first argument to the [sqlite3_config()] interface.

**

** New configuration options may be added in future releases of SQLite.

** Existing configuration options might be discontinued. Applications

** should check the return code from [sqlite3_config()] to make sure that

** the call worked. The [sqlite3_config()] interface will return a

** non-zero [error code] if a discontinued or unsupported configuration option

** is invoked.

**

** <dl>

** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Single-thread. In other words, it disables

** all mutexing and puts SQLite into a mode where it can only be used

** by a single thread. ^If SQLite

is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** it is not possible to change the [threading mode] from its default

** value of Single-thread and so [sqlite3_config()] will return

** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD

** configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Multi-thread. In other words, it disables

** mutexing on [database connection] and [prepared statement] objects.

** The application is responsible for serializing access to

** [database connections] and [prepared statements]. But other mutexes

** are enabled so that SQLite will be safe to use in a multi-threaded

** environment as long as no two threads attempt to use the same

** [database connection] at the same time. ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option

then

** it is not possible to set the Multi-thread [threading mode] and

** [sqlite3_config()] will return [SQLITE_ERROR] if called with the

** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

SQLITE_CONFIG_SERIALIZED <dt>SQLITE_CONFIG_SERIALIZED</dt>
 <dd>There are no arguments to this option. ^This option sets the
 [threading mode] to Serialized. In other words, this option enables
 all mutexes including the recursive
 mutexes on [database connection] and [prepared statement] objects.
 In this mode (which is the default when SQLite is compiled with
 [SQLITE_THREADS=1]) the SQLite library will itself serialize access
 to [database connections] and [prepared statements] so that the
 application is free to use the same [database connection] or the
 same [prepared statement] in different threads at the same time.
 ^If SQLite is compiled with
 the [SQLITE_THREADS | SQLITE_THREADS=0] compile-time option then
 it is not possible to set the
 Serialized [threading mode] and
 [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 SQLITE_CONFIG_SERIALIZED configuration option.</dd>

SQLITE_CONFIG_MALLOC <dt>SQLITE_CONFIG_MALLOC</dt>
 <dd> ^The SQLITE_CONFIG_MALLOC option takes a single argument which is
 a pointer to an instance of the [sqlite3_mem_methods] structure.
 The argument specifies
 alternative low-level memory allocation routines to be used in place of
 the memory allocation routines built into SQLite.)^ ^SQLite makes
 its own private copy of the content of the [sqlite3_mem_methods] structure
 before the [sqlite3_config()] call returns.</dd>

SQLITE_CONFIG_GETMALLOC <dt>SQLITE_CONFIG_GETMALLOC</dt>
 <dd> ^The SQLITE_CONFIG_GETMALLOC option takes a single argument which
 is a pointer to an instance of the [sqlite3_mem_methods] structure.
 The [sqlite3_mem_methods]
 structure is filled with the currently defined memory allocation routines.)^
 This option can
 be used to overload the default memory allocation
 routines with a wrapper that simulations memory allocation failure or
 tracks memory usage, for example. </dd>

SQLITE_CONFIG_SMALL_MALLOC <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
 <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
 type int, interpreted as a boolean, which if true provides a hint to
 SQLite that it should avoid large memory allocations if possible.
 SQLite will run faster if it is free to make large memory allocations,
 but some application might prefer to run slower in exchange for
 guarantees about memory fragmentation that are possible if large
 allocations are avoided. This hint is normally off.
 </dd>

SQLITE_CONFIG_MEMSTATUS <dt>SQLITE_CONFIG_MEMSTATUS</dt>
 <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,

** interpreted as a boolean, which enables or disables the collection of
 ** memory allocation statistics. ^When memory allocation
 statistics are
 ** disabled, the following SQLite interfaces become non-operational:
 **
 ** [sqlite3_hard_heap_limit64()]
 ** [sqlite3_memory_used()]
 ** [sqlite3_memory_highwater()]
 ** [sqlite3_soft_heap_limit64()]
 ** [sqlite3_status64()]
 **)^
 ** ^Memory allocation statistics are enabled by default unless SQLite is
 ** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
 ** allocation statistics are disabled by default.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
 ** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
 ** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
 ** that SQLite can use for the database page cache with the default page
 ** cache implementation.
 ** This configuration option is a no-op if an application-defined page
 ** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
 **
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
 ** 8-byte aligned memory (pMem), the size of each page cache line (sz),
 ** and the number of cache lines (N).
 ** The sz argument should be the size of the largest database page
 ** (a power of two between 512 and 65536) plus some extra bytes for each
 ** page header. ^The number of extra bytes needed by the page header
 ** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
 ** ^It is harmless, apart from the wasted memory,
 ** for the sz parameter to be larger than necessary. The pMem
 ** argument must be either a NULL pointer or a pointer to an 8-byte
 ** aligned block of memory of at least sz*N bytes, otherwise
 ** subsequent behavior is undefined.
 ** ^When pMem is not NULL, SQLite will strive to use the memory provided
 ** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
 ** a page cache line is larger than sz bytes or if all of the pMem buffer
 ** is exhausted.
 ** ^If pMem is NULL and N is non-zero, then
 each database connection
 ** does an initial bulk allocation for page cache memory
 ** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
 ** of -1024*N bytes if N is negative, . ^If additional

** page cache memory is needed beyond what is provided by the initial
 ** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
 ** additional cache line. </dd>
 **
 ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
 ** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
 ** that SQLite will use for all of its dynamic memory allocation needs
 ** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
 ** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
 ** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
 ** [SQLITE_ERROR] if invoked otherwise.
 ** ^There are three arguments to SQLITE_CONFIG_HEAP:
 ** An 8-byte aligned pointer to the memory,
 ** the number of bytes in the memory buffer, and the minimum
 allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
 ** to using its default memory allocator (the system malloc() implementation),
 ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
 ** memory pointer is not NULL then the alternative memory
 ** allocator is engaged to handle all of SQLites memory allocation needs.
 ** The first pointer (the memory pointer) must be aligned to an 8-byte
 ** boundary or subsequent behavior of SQLite will be undefined.
 ** The minimum allocation size is capped at 2**12. Reasonable values
 ** for the minimum allocation size are 2**5 through 2**8.</dd>
 **
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
 ** pointer to an instance of the [sqlite3_mutex_methods] structure.
 ** The argument specifies alternative low-level mutex routines to be used
 ** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
 ** the
 content of the [sqlite3_mutex_methods] structure before the call to
 ** [sqlite3_config()] returns. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMUTEX option takes a single argument which
 ** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
 ** [sqlite3_mutex_methods]
 ** structure is filled with the currently defined mutex routines.)^
 ** This option can be used to overload the default mutex allocation
 ** routines with a wrapper used to track mutex usage for performance
 ** profiling or testing, for example. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing

subsystem is omitted from the build and hence calls to

```

** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ (SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom
page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter
to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI

```


** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
 ** If non-zero, then URI handling is globally enabled. If the parameter is zero,
 ** then URI handling is globally disabled.)^ ^If URI handling is globally
 ** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
 ** [sqlite3_open16()]
 or
 ** specified as part of [ATTACH] commands are interpreted as URIs, regardless
 ** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
 ** connection is opened. ^If it is globally disabled, filenames are
 ** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
 ** database connection is opened. ^By default, URI handling is globally
 ** disabled. The default value may be changed by compiling with the
 ** [SQLITE_USE_URI] symbol defined.)^
 **
 ** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
 ** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
 ** argument which is interpreted as a boolean in order to enable or disable
 ** the use of covering indices for full table scans in the query optimizer.
 ** ^The default setting is determined
 ** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
 ** if that compile-time option is omitted.
 ** The ability to disable the use of covering indices
 for full table scans
 ** is because some incorrectly coded legacy applications might malfunction
 ** when the optimization is enabled. Providing the ability to
 ** disable the optimization allows the older, buggy application code to work
 ** without change even with newer versions of SQLite.
 **
 ** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
 ** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
 ** <dd> These options are obsolete and should not be used by new code.
 ** They are retained for backwards compatibility but are now no-ops.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_SQLLOG]]
 ** <dt>SQLITE_CONFIG_SQLLOG
 ** <dd>This option is only available if sqlite is compiled with the
 ** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
 ** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
 ** The second should be of type (void*). The callback is invoked by the library
 ** in three separate circumstances, identified by the value passed as the
 **
 fourth parameter. If the fourth parameter is 0, then the database connection
 ** passed as the second argument has just been opened. The third argument
 ** points to a buffer containing the name of the main database file. If the
 ** fourth parameter is 1, then the SQL statement that the third parameter
 ** points to has just been executed. Or, if the fourth parameter is 2, then
 ** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this
 ** configuration option can be seen in the "test_sqllog.c" source file in
 ** the canonical SQLite source tree.</dd>
 **
 ** [[SQLITE_CONFIG_MMAP_SIZE]]
 ** <dt>SQLITE_CONFIG_MMAP_SIZE
 ** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
 ** that are the default mmap size limit (the default setting for
 ** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
 ** ^The default setting can be overridden by each database connection using
 ** either
 the [PRAGMA mmap_size] command, or by using the
 ** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
 ** will be silently truncated if necessary so that it does not exceed the
 ** compile-time maximum mmap size set by the
 ** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
 ** ^If either argument to this option is negative, then that argument is
 ** changed to its compile-time default.
 **
 ** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
 ** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
 ** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
 ** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
 ** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
 ** that specifies the maximum size of the created heap.
 **
 ** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
 ** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
 ** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
 ** is a pointer to an integer and writes into that integer the number of extra
 **
 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
 ** The amount of extra space required can change depending on the compiler,
 ** target platform, and SQLite version.
 **
 ** [[SQLITE_CONFIG_PMASZ]]
 ** <dt>SQLITE_CONFIG_PMASZ
 ** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
 ** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
 ** sorter to that integer. The default minimum PMA Size is set by the
 ** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
 ** to help with sort operations when multithreaded sorting
 ** is enabled (using the [PRAGMA threads] command) and the amount of content
 ** to be sorted exceeds the page size times the minimum of the
 ** [PRAGMA cache_size] setting and this value.
 **
 ** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
 ** <dt>SQLITE_CONFIG_STMTJRNL_SPILL

** <dd>^The `SQLITE_CONFIG_STMTJRNL_SPILL` option takes a single parameter which
 ** becomes the [statement journal] spill-to-disk threshold.
 **
 [Statement journals] are held in memory until their size (in bytes)
 ** exceeds this threshold, at which point they are written to disk.
 ** Or if the threshold is -1, statement journals are always held
 ** exclusively in memory.
 ** Since many statement journals never become large, setting the spill
 ** threshold to a value such as 64KiB can greatly reduce the amount of
 ** I/O required to support statement rollback.
 ** The default value for this setting is controlled by the
 ** `SQLITE_STMTJRNL_SPILL` compile-time option.
 **
 ** `SQLITE_CONFIG_SORTERREF_SIZE`
 ** <dt>`SQLITE_CONFIG_SORTERREF_SIZE`
 ** <dd>The `SQLITE_CONFIG_SORTERREF_SIZE` option accepts a single parameter
 ** of type (int) - the new value of the sorter-reference size threshold.
 ** Usually, when SQLite uses an external sort to order records according
 ** to an ORDER BY clause, all fields required by the caller are present in the
 ** sorted records. However, if SQLite determines based on the declared type
 ** of a table column that
 its values are likely to be very large - larger
 ** than the configured sorter-reference size threshold - then a reference
 ** is stored in each sorted record and the required column values loaded
 ** from the database as records are returned in sorted order. The default
 ** value for this option is to never use this optimization. Specifying a
 ** negative value for this option restores the default behaviour.
 ** This option is only available if SQLite is compiled with the
 ** `SQLITE_ENABLE_SORTER_REFERENCES` compile-time option.
 **
 ** `SQLITE_CONFIG_MEMDB_MAXSIZE`
 ** <dt>`SQLITE_CONFIG_MEMDB_MAXSIZE`
 ** <dd>The `SQLITE_CONFIG_MEMDB_MAXSIZE` option accepts a single parameter
 ** [`sqlite3_int64`] parameter which is the default maximum size for an in-memory
 ** database created using [`sqlite3_deserialize()`]. This default maximum
 ** size can be adjusted up or down for individual databases using the
 ** `SQLITE_FCNTL_SIZE_LIMIT` [`sqlite3_file_control`|file-control]. If this
 ** configuration setting is
 never used, then the default maximum is determined
 ** by the `SQLITE_MEMDB_DEFAULT_MAXSIZE` compile-time option. If that
 ** compile-time option is not set, then the default maximum is 1073741824.
 ** </dd>
 **/

Found in path(s):

* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.h

1.118 github.com/hazelcast/hazelcast-go-client 1.2.0

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1.119 gokrb 7.5.0

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1.120 charset-normalizer 2.0.7

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1.121 py3-msgpack 1.0.2-r1

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1.122 busybox 1.34.1-r5

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1.123 py3-distlib 0.3.3-r0

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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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1.3 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
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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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maintained by ric Araujo. Many people have contributed to the project.

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

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

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1.124 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.125 jackc-pgproto 2.0.6

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1.126 x-sys 0.0.0-20211216021012-1d35b9e2eb4e

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1.127 antchfx-xpath 1.1.10

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1.128 pax-utils 1.3.3-r0

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1.131 supervisor 4.2.0

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1.132 pam 1.5.2-r0

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1.133 py3-setuptools 52.0.0-r4

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1.134 py3-ordered-set 4.0.2-r2

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1.135 pgzip 1.2.4

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1.136 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.137 jackc-pgtype 1.6.2

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1.138 ncurses 6.3_p20211120-r0

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1.139 jackc-pgconn 1.8.0

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1.140 jcmtturner-dnsutils 2.0.0

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1.141 xxhash 2.1.2

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1.142 Idns 1.7.2_git20210911-r1

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1.143 python-requests 2.26.0

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1.144 py3-lockfile 0.12.2-4.ph4

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1.145 hashicorp-uuid 1.0.2

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1.147 py3-tomli 1.2.2-r0

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1.150 logrus 1.8.1

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1.156 py3-charset-normalizer 2.0.7-r0

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1.157 py3-progress 1.6-r0

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1.159 go.uber.org/atomi 1.7.0

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1.160 gorm.io/gorm 1.20.12

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1.161 globalsign-mgo 0.0.0-20181015135952-eeefdec41b8

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1.162 perks 1.0.1

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1.163 tzdata 2022a-r0

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1.164 x-sys 0.0.0-20220114195835-da31bd327af9

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1.165 libc6-compat 1.2.2-r7

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1.166 mpdecimal 2.5.1-r1

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1.167 python-pip 20.3.4

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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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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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	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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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.

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Release	Derived	Year	Owner	GPL-
	from			compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	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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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.
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1.168 py3-colorama 0.4.4-r1

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1.170 golang-lru 0.5.3

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

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1.173 netcat-openbsd 1.130-r3

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1.174 jcmturner-gokrb 8.4.2

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That's all there is to it!

1.176 distlib 0.3.3

1.176.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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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distlib has started off using some of the code from distutil2.

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1.189 lockfile 0.12.2-4.ph4

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1.190 ssl-client 1.34.1-r5

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1.191 github.com/mholt/archiver/v3 3.5.0

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This license, the Lesser General Public License, applies to some specially designated software---typically

libraries---of the Free

Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that

you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

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

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

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

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

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

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

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

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

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

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

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

`@subheading` TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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

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

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

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

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of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

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

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

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

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

@item

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

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

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

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

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

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

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

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

@item

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

@item

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

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

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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smallexample

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

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if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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

@end enumerate

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

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

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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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received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

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

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@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.

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```
@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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Version 2.1, February 1999

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Ty Coon, President of Vice

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
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1.195 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.196 golang-genproto 0.0.0-20210602131652-f16073e35f0c

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1.197 andybalholm-brotli 1.0.2

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1.198 ca-certificates 20211220-r0

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1.199 prometheus-procfs 0.0.11

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

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1.200 github.com/antlr/antlr4 0.0.0-20201029161626-9a95f0cc3d7c

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1.206 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.207 libxml2 2.9.14-r0

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1.208 influxdb 1.8.0

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1.209 py3-packaging 20.9-r1

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1.210 spew 1.1.1

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1.211 inflection 1.0.0

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1.212 curl 7.80.0-r1

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1.213 prometheus-client 1.12.1

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1.214 zap 1.17.0

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1.216 etcd-client-pkg 3.5.2

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1.218 jcmturner-gofork 1.0.0

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1.219 json2xml 3.7.0

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1.220 golang-snappy 0.0.4

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1.221 antchfx-xpath 1.2.0

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1.222 queue 1.1.0

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1.223 lockfile 0.12.2

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1.224 alpine-keys 2.4-r1

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1.225 github.com/dlintw/goconf 0.0.0-20120228082610-dcc070983490

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Metadata-Version: 1.1

Name: mimeparse

Version: 0.1.3

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Home-page: <http://code.google.com/p/mimeparse/>

Download-url: <http://code.google.com/p/mimeparse/downloads/list>

Summary: mimeparse

License: MIT License

Description: A module provides basic functions for parsing mime-type names and matching them against a list of media-ranges.

Keywords: python mime-type

Platform: any

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1.226 py3-pip 20.3.4-r1

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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A. HISTORY OF THE SOFTWARE

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

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

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

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1.228 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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1.230 x-crypto 0.0.0-20220214200702-86341886e292

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1.231 grpc-go 1.27.0

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1.232 go-uber-org-multierr 1.6.0

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1.233 x-net 0.0.0-20220225172249-27dd8689420f

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1.234 nats-go 1.13.1-0.20211018182449-f2416a8b1483

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1.235 gogoprotobuf 1.3.2

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1.236 gopkg.in/xmlpath.v2 2.0.0-20150820204837-860cbeca3ebc

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1.237 py3-idna 3.3-r0

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1.239 jackc-pgtype 1.10.0

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1.241 py3-distro 1.6.0-r0

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1.242 jcmturner-aescts 2.0.0

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1.244 alpine-baselayout 3.2.0-r18

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1.245 golang-protobuf-extensions 1.0.1

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1.246 github.com/antchfx/xmlquery 1.3.4

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1.247 py3-retrying 1.3.3-r2

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1.248 py3-appdirs 1.4.4-r2

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1.249 pierrec-lz4 4.0.3

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1.250 musl 1.2.2-r7

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1.251 htop 3.1.1-r0

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1.252 klauspost-compress 1.13.6

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@end display

@subheading Preamble

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

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

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is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former

contains code derived from the library, 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.

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

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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@smallexample

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

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@end smallexample

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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
```

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```
@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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Version 3, 29 June 2007

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1.261 py3-html5lib 1.1-r1

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1.262 prometheus-common 0.32.1

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1.271 go-yaml 2.4.0

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1.272 s6 2.11.0.0-r0

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1.273 shadow 4.8.1-r1

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

1.275 py3-certifi 2020.12.5-r1

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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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@(#) \$RCSfile: certdata.txt,v \$

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

1.276 jinja2 2.11.2

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1.277 pierrec-lz4 2.6.1+incompatible

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1.278 libproc 3.3.17-r0

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1.279 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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1.280 jackc-pgio 1.0.0

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1.281 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.282 jackc-pgconn 1.11.0

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1.283 json-iterator-go 1.1.10

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1.284 s6-ipcserver 2.11.0.0-r0

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1.285 dsnet-compress 0.0.1

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1.286 go-resiliency 1.2.0

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1.287 libstdc++ 10.3.1_git20211027-r0

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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man/reallocf.3bsd
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man/strmode.3bsd
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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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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
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1.308 gopkg.in/urfave/cli.v1 1.20.0

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1.309 nghttp2 1.46.0-r0

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1.310 python 3.9.7-r4

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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.

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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
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.311 py3-six 1.16.0-r0

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1.312 fasthttp 1.30.0

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1.315 brotli 1.0.9-r5

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1.316 errors 0.9.1

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1.317 grpc-go 1.42.0

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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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1.324 sh 1.13.1

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1.325 perks 1.0.1

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1.326 protobuf 1.26.0

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1.327 urllib3 1.26.7

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1.328 golang-protobuf-extensions 1.0.1

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1.329 bridgeutils 1.7.1

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1.330 distro 1.6.0

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1.334 x-term 0.0.0-20210927222741-03fcf44c2211

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1.340 zlib 1.2.12-r1

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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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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).

*/

/* zutil.c -- target dependent utility functions for the compression library

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practice

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

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If 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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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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1.345 x-net 0.0.0-20220225172249-27dd8689420f

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1.346 pgzip 1.2.4

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1.347 libgcrpt 1.9.4-r0

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```
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```

```
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- cipher/sha256-ssse3-amd64.S
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- cipher/sha512-avx2-bmi2-amd64.S
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- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

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1.348 drill 1.7.2_git20210911-r1

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1.349 jackc-pgpassfile 1.0.0

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1.350 dnutils 1.0.1

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1.351 contextlib2 21.6.0

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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 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 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
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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Python/Jython

1.352 pq 1.10.4

1.352.1 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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