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1.3 profile 1.3.0

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1.9 gojsonschema 1.1.0

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1.12 distro 1.5.0

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1.13 rardecode 1.0.0

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1.14 sqlx 1.2.0

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1.15 ulikunitz-xz 0.5.6

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1.16 pierrec-lz4 2.0.5+incompatible

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1.17 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.18 nuid 1.0.1

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1.19 bytebufferpool 1.0.0

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1.20 google-uuid 1.1.2

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1.21 datadog-zstd 1.3.6-0.20190409195224-796139022798

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1.23 zap 1.14.1

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1.24 sarama 1.22.1

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1.25 apache-thrift 0.13.0

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lib/csharp/src/Transport/TServerTransport.cs
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lib/csharp/src/Transport/TTransportException.cs
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lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
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1.27 html5lib-python 1.1

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1.28 html5lib 1.1

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1.29 libffi 3.3-r2

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1.30 xz 5.2.5-r0

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1.31 shadow 4.8.1-r0

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1.33 bzip2 1.0.8-r1

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1.34 ldns 1.7.1-r1

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1.35 etcd-raft 3.3.25+incompatible

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procfs provides functions to retrieve system, kernel and process
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"""

1.38 webencodings 0.5.1

1.38.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
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```
from setuptools import setup, find_packages
import io
from os import path
import re


VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()


setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language
 :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
```

```
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)
```

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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```
"""

    webencodings.mklabels
    ~~~~~~~~~~~~~~~~~~~~~

    Regenarate the webencodings.labels module.

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"""

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen


def assert_lower(string):
    assert string == string.lower()
    return string


def generate(url):
    parts = ['''\
"""

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~
```

```
    Map encoding labels to their name.

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"""

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
'']
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
         for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ''.join(parts)


if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings
```
    ==================

    This is a Python implementation of the `WHATWG Encoding standard
    <http://encoding.spec.whatwg.org/>`_.
```

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set
of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python
:: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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python-webencodings
==========

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
 https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has
 encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

1.39 urfave-cli v1.20.0

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1.40 toml 0.10.2

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1.42 retrying 1.3.3

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1.44 queue 1.1.0

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1.48 yaml 2.3.0

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1.53 popt 1.18-r0

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1.60 coreutils 8.32-r2

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1.61 go-yaml 2.3.0

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1.62 zap 1.15.0

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1.67 packaging 20.8

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1.68 libc-utils 0.7.2-r3

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1.70 distlib 0.3.1

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

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

software.

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

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

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
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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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==========

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

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1.78 pq 1.3.0

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1.80 x-text 0.3.6

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1.81 cachecontrol 0.12.6

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1.82 urllib3 1.26.2

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Contributors

In chronological order:

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 * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

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

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

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

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 * Python 3 support

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

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

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

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

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI

* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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

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

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield
<https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

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

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

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

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

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

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

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>

* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

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

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

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

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

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

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

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

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

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

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

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

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>

* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* 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]

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1.83 contextlib2 0.6.0

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

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1.84 python-certifi 2020.12.5

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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
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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 $

1.85 nose 1.3.7

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1.86 python-pip 20.3.4

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.
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2.5	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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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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
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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
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.

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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(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
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1.88 python-pip 21.1.1

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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 (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes

2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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

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

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

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

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

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

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

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

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

is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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* Philip Thiem
* Reinout van Rees
* Robert Myers
* Stefan H. Holek
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1.89 python-requests 2.25.1

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1.90 jinja2 2.11.2

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import re

from setuptools import find_packages
from setuptools import setup

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

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)
```

```
setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
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        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
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    ],
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
     python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    install_requires=["MarkupSafe>=0.23"],
    extras_require={"i18n": ["Babel>=0.8"]},
    entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)
```

Found in path(s):

* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://jinja.palletsprojects.com/

Project-URL: Code, https://github.com/pallets/jinja
Project-URL: Issue tracker, https://github.com/pallets/jinja/issues
Description: Jinja
=====

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

It includes:

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

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

Installing

Install and update using `pip`_:

.. code-block:: text

$ pip install -U Jinja2

.. _pip: https://pip.pypa.io/en/stable/quickstart/

In A Nutshell

.. code-block:: jinja

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

Links

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
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- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development
 Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type:
 text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO
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1.91 python-requests 2.25.0

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1.92 msgpack 1.0.0

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1.93 supervisor 4.2.0

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1.95 pep517 0.9.1

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1.96 pyinotify 0.2.10

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Contributions to the urllib3 project

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* HTTPS patch (which inspired HTTPSConnectionPool)

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

* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

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

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

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* Bugfixes, Improvements and Test
coverage

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* Python 3 support

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* Design review, bugfixes, test coverage.

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* IPv6 url support and test coverage

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* Support for explicitly closing pooled connections

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

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

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

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

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

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

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

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

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

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

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

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

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

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

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

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

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

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

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

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

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

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

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

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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

2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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1.104 py3-progress 1.5-r2

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1.105 py3-pep 0.10.0-r2

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1.106 py3-webencodings 0.5.1-r4

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```
from setuptools import setup, find_packages
import io
from os import path
import re


VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()


setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
```

```
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language
 :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-
0.5.1/setup.py
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"""

    webencodings.mklabels
    ~~~~~~~~~~~~~~~~~~~~~

    Regenarate the webencodings.labels module.

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"""

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen


def assert_lower(string):
```

```
    assert string == string.lower()
    return string


def generate(url):
    parts = ['''\
"""

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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"""

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
''']
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
         for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ''.join(parts)


if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1

Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings
==========

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set
of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python
:: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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python-webencodings
==========

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
 https://github.com/gsnedders/python-webencodings
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For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
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The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has
 encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

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* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/tests.py

* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

1.107 py3-parsing 2.4.7-r2

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1.108 py3-distro 1.5.0-r3

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1.109 py3-toml 0.10.2-r2

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1.111 py3-cachecontrol 0.12.6-r1

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1.112 py3-distlib 0.3.1-r3

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
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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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1.113 py3-certifi 2020.12.5-r1

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $
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1.114 py3-chardet 4.0.0-r2

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1.115 py3-requests 2.25.1-r4

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1.116 py3-packaging 20.9-r1

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1.117 py3-setuptools 52.0.0-r3

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1.118 py3-colorama 0.4.4-r1

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1.119 py3-retrying 1.3.3-r1

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1.120 py3-contextlib 0.6.0-r1

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives
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in Reston, Virginia where he released several versions of the software.

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

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2.5.1	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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1.121 py3-html5lib 1.1-r1

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1.122 py3-six 1.15.0-r1

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1.124 py3-ordered-set 4.0.2-r1

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1.125 lockfile 0.12.2-4.ph4

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1.126 pyparsing 2.4.7-1.ph4

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1.127 distro 1.5.0-1.ph4

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1.128 py3-lockfile 0.12.2-4.ph4

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1.129 cachecontrol 0.12.6-1.ph4

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1.130 python 3.9.5-r1

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

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

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

All
Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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1.131 pam 1.5.1-r1

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1.132 expat 2.4.1-r0

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1.133 utmps 0.1.0.2-r0

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1.138 py3-urllib 1.26.5-r0

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1.139 nghttp2 1.43.0-r0

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1.140 py3-msgpack 1.0.2-r1

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1.141 libcap 2.50-r0

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modified by someone else and passed on, the recipients should know
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will not be affected by problems that might be
introduced by others.

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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
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Most GNU software, including some libraries, is covered by the
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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
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of the original library. The ordinary
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entire combination fits its criteria of freedom. The Lesser General
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We call this license the @dfn{Lesser} General Public License because it
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of an advantage over competing non-free programs. These disadvantages
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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
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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
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In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
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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
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modification follow. Pay close attention to the difference between a
``work based on the library" and a ``work that uses the library". The
former
contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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

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@item

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@item
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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
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@end enumerate

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

@item
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it
contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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@enumerate a
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properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@subheading END OF TERMS AND CONDITIONS

@page
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smallexample

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

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@page
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and a brief idea of what it does.}
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@end smallexample

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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- the GNU.Gettext.dll C# library,
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man/bitstring.3bsd
man/errc.3bsd
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Julian Seward, Cambridge, UK.
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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.153 sqlite 3.35.5-r0

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1.154 brotli 1.0.9-r5

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1.155 ncurses 6.2_p20210612-r0

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1.156 log-rotate 3.18.1-r0

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```
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Main Mesa code	src/mesa/	MIT
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Gallium code	src/gallium/	MIT

Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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1.157 curl 7.78.0-r0

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1.158 python-certifi 2020.11.08

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the 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
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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

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

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

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work,
complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.167 s6-ipcserver 2.10.0.3-r0

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

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same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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A ``library'' means a collection of software functions and/or data

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The ``Library'', below, refers to any such software library or work
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Library'' means either the Library or any derivative work under
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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
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@enumerate a
@item

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@item
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@item
You must
cause the whole of the work to be licensed at no
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@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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

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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.

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

@item
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@enumerate a
@item
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@item
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properly with a modified version of the library, if the user installs
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@enumerate a
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@subheading END OF TERMS AND CONDITIONS

@page
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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
This subpackage is under the GPL, see file COPYING in the toplevel directory.
The libasprintf package is under the LGPL, see file COPYING.LIB.
@c The GNU General Public License.
@center Version 2, June 1991

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

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@heading Preamble

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machine-readable copy of the corresponding source code, to be
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The source code for a work means the preferred form of the work for
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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@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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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
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@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

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

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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- the GNU.Gettext.dll C# library,
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Version 2.1, February 1999

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

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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
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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"work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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1.171 htop 3.0.5-r2

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1.172 iotop 0.6-r5

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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary
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treats it as such.

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

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

The precise terms and conditions for copying, distribution and
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follow. Pay close attention to the difference between a
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Note that it is possible for a library to be covered by the ordinary
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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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(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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1.174 py3-lockfile 0.12.2-r4

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1.179 perks 1.0.1

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1.180 jackc-chunkreader 2.0.1

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1.181 spew 1.1.1

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1.182 rcrowley-go-metrics 0.0.0-20190826022208-cac0b30c2563

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1.183 gogoprotobuf 1.3.1

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1.184 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.185 jackc-pgpassfile 1.0.0

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1.186 blang-semver 3.5.1+incompatible

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1.188 prometheus-procfs 0.0.3

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1.192 go-immutable-radix 1.1.0

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1.193 capnslog 0.0.0-20180928190104-399ea9e2e55f

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1.194 sarama 1.26.3

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1.195 x-xerrors 0.0.0-20191204190536-9bdfabe68543

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1.196 jackc-pgio 1.0.0

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1.197 jcmturner-rpc 1.1.0

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1.198 klauspost-compress 1.9.8

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1.201 jackc-pgconn 1.8.0

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1.202 x-crypto 0.0.0-20200622213623-75b288015ac9

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1.203 prometheus-client 0.0.0-20190812154241-14fe0d1b01d4

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1.204 x-sys 0.0.0-20200602225109-6fdc65e7d980

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1.207 nuid 1.0.1

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1.208 jcmturner-gofork 1.0.0

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1.209 openzipkin-zipkin-go-opentracing 0.0.0-20171026175212-577d7d7eb166

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1.210 jackc-pgx 4.10.1

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1.211 queue 1.1.0

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1.212 go-systemd 0.0.0-20190719114852-fd7a80b32e1f

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.217 jackc-pgtype 1.6.2

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1.218 urfave-cli 1.19.1

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1.221 errors 0.8.1

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1.222 golang-lru 0.5.3

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compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
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compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
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lib/st/README
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1.224 protobuf 1.24.0

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1.225 gorm-io/gorm 1.20.12

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1.226 jackc-pgproto 2.0.6

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1.227 antchfx-xmlquery 1.3.4

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1.228 go-nats 1.7.2

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1.229 go.uber.org/atomi 1.6.0

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1.230 go-uber-org-multierr 1.5.0

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1.231 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.237 xml-path 2.0.0-20150820204837-860cbeca3ebc

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1.239 xi2-xz 0.0.0-20171230120015-48954b6210f8

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1.240 rsc.io-sampler 1.3.0

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1.241 karalabe-cookiejar 1.0.0-20141109175019-e1490cae028c

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1.242 rsc.io-quote 1.5.2

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1.243 scheduler 0.0.0-20170109141437-ee74d2f83d82

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1.245 prometheus-common 0.9.1

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1.248 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.249 gogoprotobuf 1.3.2

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1.250 x-sys 0.0.0-20210823070655-63515b42dcdf

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1.251 x-term 0.0.0-20201126162022-7de9c90e9dd1

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1.252 fasthttp 1.30.0

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1.253 json-iterator-go 1.1.10

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1.254 etcd 3.3.25+incompatible

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

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Protocol Buffers for Go with Gadgets

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

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1.255 x-crypto 0.0.0-20210513164829-c07d793c2f9a

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1.256 x-sys 0.0.0-20210630005230-0f9fa26af87c

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1.257 prometheus-procfs 0.0.11

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procfs provides functions to retrieve system, kernel and process
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1.258 golang-genproto 0.0.0-20210716133855-ce7ef5c701ea

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1.259 gojsonschema 0.0.0-20190620134401-b0c64e0f370d

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1.260 grpc-go 1.39.0

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---

xxhsum command line interface
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1.261 robot-robot-api 0.0.0-20210902051205-84502ba7cf6a

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// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

```
import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"
import _ "google.golang.org/genproto/googleapis/api/annotations"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicenseDevice struct {
 DeviceSerialNumber   string   `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache
        int32    `json:"-"`
}

func (m *ZtpLicenseDevice) Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_e27237926d594488, []int{0}
}
func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(dst, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice
```

```
 proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
 if m != nil {
  return m.DeviceSerialNumber
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_cw_ztp_license_device_e27237926d594488)
}

var fileDescriptor_cw_ztp_license_device_e27237926d594488 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13,
 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42, 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"
import _ "google.golang.org/genproto/googleapis/api/annotations"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf
```

```
// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicense struct {
 Id                  int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
 Status              string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
 LastUpdated
  int64    `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_f6745968de738545, []int{0}
}
func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (dst *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(dst, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var
 xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {
 if m != nil {
  return m.Id
 }
 return 0
}
```

```
func (m *ZtpLicense) GetStatus() string {
 if m != nil {
  return m.Status
 }
 return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
 if m != nil {
  return m.LastUpdated
 }
 return 0
}

func init() {
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_cw_ztp_license_f6745968de738545)
}

var fileDescriptor_cw_ztp_license_f6745968de738545 = []byte{
 // 222 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
 0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
 0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7,
 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
 0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48, 0x58, 0x5f, 0xc2, 0xfe,
 0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
 0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
 0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
 0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
 0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
 0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
 0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
 0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
 0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01,
 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
```

```
import fmt "fmt"
import math "math"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
 Uuid                 string   `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
 SerialNumber         []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
 LocationId           string   `protobuf:"bytes,3,opt,name=locationId,proto3"
 json:"locationId,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399, []int{0}
}
func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(dst, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func
 (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo
```

```
func (m *ZtpLicenseDeviceV2) GetUuid() string {
 if m != nil {
  return m.Uuid
 }
 return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
 if m != nil {
  return m.SerialNumber
 }
 return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
 if m != nil {
  return m.LocationId
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto",
fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399)
}

var fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399 = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7,
 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65, 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
 0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
 0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
 0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
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 0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
 0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb,
 0x77, 0x91, 0x55, 0x0f,
 0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
```

0x00, 0xff, 0xff, 0x66, 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}

1.262 go-nats 0.0.0-20180125202315-c7e16c2459ca

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1.263 robot-telemetry_proto 0.0.0-20210520062046-a73bb180cba4

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

module CISCO-IMAGE-LICENSE-MGMT-MIB {

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

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

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

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

 organization
  "Cisco Systems Inc.";

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

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

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

The image level licensing mechanism works as follows -

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

Scenario 1:
- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features
that are part of the
base advsecurity license.
- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the
next reboot. After reboot the device will run
advipservicesk9 features.

Scenario 2:
- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity
license on the device.
- This device will run all features that are part of the
base advipservices license.
- No upgrades available for advipservices license.

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

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

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

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

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

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

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

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

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

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

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

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

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

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

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

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

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

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

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

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

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

      leaf cilmCurrentImageLevel {
```

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

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

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

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

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

        Note: The license store index can be '0' if no license is
        installed and device is running base image.";
      smiv2:max-access "read-only";
```

```
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
  }

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

      Note: The license index can be '0' if no license is
      installed and device is running base image.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
  }

  leaf cilmNextBootLicenseStoreIndex {
    type uint32;
    description
     "This object indicates the license store index where the
      next boot license is stored. This object has the same
      value as clmgmtLicenseStoreIndex object and uniquely
      identifies an entry in clmgmtLicenseStoreInfoTable in

  CISCO-LICENSE-MGMT-MIB.

      Note: The license store index can be '0' if no license is
      installed for the next boot.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
  }

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

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

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

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

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

      leaf cilmModuleName {
        type leafref {

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

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

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

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

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

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

notification cilmBootImageLevelChanged {
```

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

  container object-1 {

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

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

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

  container object-2 {

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

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

```
        }
      }

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

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

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

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

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

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

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

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

}
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#
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--

```
JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

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

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

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

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

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

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

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

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

```
  jnxLicenseType          INTEGER,
  jnxLicenseKeys          OCTET STRING
  }

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

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

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

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

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

-- Feature Listing Table

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

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

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

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

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

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

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

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

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

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


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

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

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

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

```
  DESCRIPTION
      "License auto update URL of a license server."
  ::= { jnxLicenseSettings
 3 }



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

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

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

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

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

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

jnxLicenseInfringeSingle NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
```

```
  DESCRIPTION
      "The SNMP trap that is generated when the license for feature
       identified by jnxLicenseFeatureName is not valid i.e. either expired or
       not available."
  ::= { jnxLicenseNotifications 5 }


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

module CISCO-LICENSE-MGMT-MIB {

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

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

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

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

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

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

 organization
  "Cisco Systems Inc.";
```

```
contact
 "Cisco Systems
  Customer Service

  Postal: 170 W Tasman Drive

  San Jose, CA  95134

  USA

  Tel: +1 800 553 -NETS

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

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

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

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

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

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

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

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

EULA:
End User License Agreement.

EVALUATION LICENSE:
Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

part and it contains one or more license lines.

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

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

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

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

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

LICENSING PORTAL:
Generates licenses, permission tickets and verifies device credentials and rehost tickets.

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

STEPS TO INSTALL A LICENSE:
To install a license, the management application
1. Retrieves device credentials of the device.
2. Communicates
with Cisco's licensing portal to get
the license file, uses device credentials to identify
the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

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

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

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

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

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

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

    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

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

```
}

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

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

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

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

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

typedef ClmgmtLicenseActionState {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "pending" {
      value "2";
    }
    enum "inProgress" {
      value "3";
    }
    enum "successful" {
      value "4";
    }
    enum "partiallySuccessful" {
      value "5";
    }
    enum "failed" {
      value "6";
    }
  }
  description
   "The state of license action execution.

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

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

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

    successful(4)         - action has completed successfully.

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

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

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

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

all the license actions.

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

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

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

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

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

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

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

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

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

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

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

invalidLicenseStore(14) - License store is not valid.

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

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

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

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

invalidRehostTicket(19) - The rehost ticket file contents

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


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

  container clmgmtLicenseConfiguration {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";


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

```
  container clmgmtLicenseDeviceInformation {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

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

  container clmgmtLicenseNotifObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

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

```
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
  }

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

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

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

    Refer to the description of clmgmtLicenseAction for more
    information on what these actions do on the device.
    Once the request completes, the management
```

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

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

        1. CREATE-AND-GO method
           Management application sets clmgmtLicenseActionRowStatus to
           createAndGo(4) and all other required objects to valid
           values in a single SNMP SET request. If all the values
           are valid, the device creates the entry and executes the
            action. If the SET request fails, the entry will not be
           created.
        2. CREATE-AND-WAIT method
           Management application sets clmgmtLicenseActionRowStatus to
           createAndWait(5) to create an entry. Management application
           can set all other required objects to valid
           values in more than one SNMP SET request. If SET request
           for any of the objects fails, management application can
        set
           just only that object. Once all the required objects
           are set to valid values, management application triggers
        action
           execution by setting clmgmtLicenseActionRowStatus to
           active(1).

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

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

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

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

1. Installing a license
   The following MIB objects need to be set for installing a license
   a. clmgmtLicenseActionTransferProtocol

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

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

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

2. Clearing a license
   The following MIB objects need to be set for clearing a license
   a. clmgmtLicenseActionEntPhysicalIndex
   b. clmgmtLicenseActionLicenseIndex
   c. clmgmtLicenseStore
   d. clmgmtLicenseAction

3. Revoking a license
   The following MIB objects need to be set for revoking a license
   a. clmgmtLicenseActionTransferProtocol

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

4. Regenerate last rehost ticket
The following
MIB objects need to be set for regenerating
last rehost ticket
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicensePermissionTicketFile
g. clmgmtLicenseRehostTicketFile
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAction

5. Save all licenses to a backup storage
The following MIB objects need to be set for storing all
licenses to a backup store
a. clmgmtLicenseActionEntPhysicalIndex
b. clmgmtLicenseActionTransferProtocol
c. clmgmtLicenseServerAddressType
d. clmgmtLicenseServerAddress
e. clmgmtLicenseServerUsername
f. clmgmtLicenseServerPassword
g.
clmgmtLicenseBackupFile
h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be
accepted for installing.
The following MIB objects need to be set exporting required
EULAs
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicenseFile
g. clmgmtLicenseEULAFile

```
            h. clmgmtLicenseAction

        For any action, if clmgmtLicenseActionTransferProtocol
        is set to local(2), the following objects need not be set.
            a. clmgmtLicenseServerAddressType
            b. clmgmtLicenseServerAddress
            c. clmgmtLicenseServerUsername
            d. clmgmtLicenseServerPassword

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

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

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

```
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
    }

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

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

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

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

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

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

```
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
    }

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

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

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

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

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

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

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

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


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

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

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

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

  leaf clmgmtLicenseAction {
    type enumeration {
      enum "noOp" {

value "1";
      }
      enum "install" {
        value "2";
      }
      enum "clear" {
        value "3";
      }
      enum "processPermissionTicket" {
        value "4";
      }
      enum "regenerateLastRehostTicket" {
        value "5";
      }
      enum "backup" {
        value "6";
      }
      enum "generateEULA" {
        value "7";
      }
    }
    description
     "This object indicates the the command/action to be executed.

      Command                    Remarks
      -------                  -------
      noOp(1)                    No operation will be
                               performed.

      install(2)                 Installs the license.

      clear(3)                   Clears the license.

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

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

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

      generateEULA(7)                Checks whether the licenses
                                     in the license file need EULA
                                     acceptance and uploads the
                                     needed EULA contents to a file.";
    smiv2:defval "noOp";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
   }

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

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

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

  leaf clmgmtLicenseActionFailCause {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
    description
```

```
        "This object indicates the reason for this license action
         failure. The value of this object is valid only when
         clmgmtLicenseActionState is failed(6).";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
    }

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

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

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

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

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

         Management application should set this object to true(1) when
```

```
      installing licenses that need EULA acceptance.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
  }

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

container clmgmtLicenseActionResultTable {
 description
  "This table contains results of license action if the
   license action involves multiple licenses. Entries in this
   table are not created for actions where there is
   only license that is subject of the action. For
   example, if there are 3 licenses in a license file
   when executing license install action, 3 entries will
   be created in this table, one for each license.";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

 list clmgmtLicenseActionResultEntry {
   key "clmgmtLicenseActionIndex clmgmtLicenseNumber";
   description
     "An entry in clmgmtLicenseActionResultTable. Each entry
     contains result of the action for a single license.
     These entries are created immediately after action
     execution when the action involves multiple licenses.
     These entries get automatically deleted when the
     corresponding entry in clmgmtLicenseActionTable
     is deleted.";
   smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";

   leaf clmgmtLicenseActionIndex {
     type leafref {
```

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

    leaf clmgmtLicenseNumber {
      type uint32 {
        range "1..4294967295";
      }
      description
       "This object indicates the sequence number of this license
        in the list of licenses on which the action
 is executed.
        For example, if there are 3 licenses in a license file
        when executing license install action, this object will
        have values 1, 2 and 3 respectively as ordered in the
        license file.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
    }

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

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

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

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

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

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

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

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

```
        smiv2:oid
 "1.3.6.1.4.1.9.9.543.1.2.1.1.3";
      }

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

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

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

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

      leaf clmgmtDefaultLicenseStore {
        type uint32 {
          range "1..4294967295";
        }
        description
```

```
        "This object indicates the clmgmtLicenseStoreIndex of
         default store in the device. There will be only one
         default license store per device. If no license store
         is specified during license install, this default license
         store will be used.";
       smiv2:max-access "read-only";
       smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";
      }
    }
  }

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

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

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

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

```
    }

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

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

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

    leaf clmgmtLicenseType {
      type enumeration {
        enum "demo" {
          value "1";
        }
        enum "extension"
{
          value "2";
        }
        enum "gracePeriod" {
          value "3";
```

```
        }
        enum "permanent" {
          value "4";
        }
        enum "paidSubscription" {
          value "5";
        }
        enum "evaluationSubscription" {
          value "6";
        }
        enum "extensionSubscription" {
          value "7";
        }
        enum "evalRightToUse" {
          value "8";
        }
        enum "rightToUse" {
          value "9";
        }
        enum "permanentRightToUse" {
          value "10";
        }
      }
      description
       "This object identifies type of license. Licenses may have
        validity period defined in terms of time duration that the
        license is valid for or it may be defined in terms of actual
        calendar dates. Subscription licenses are licenses that have
        validity period
defined in terms of calendar dates.

        demo(1)              - demo(evaluation license) license.
        extension(2)          - Extension(expiring) license.
        gracePeriod(3)        - Grace period license.
        permanent(4)          - permanent license, the license has no
                              expiry date.
        paidSubscription(5)   - Paid subscription licenses are the
        licenses
                              which are purchased by customers. These
                              licenses have a start date  and end date
                              associated with them.
        evaluationSubscription(6)-Evaluation subscription licenses are
                                the trial licenses. These licenses
                                are node locked and it can be obtained
                                only once for an UDI. They are valid

        based on calendar days. These licenses
                                have a start date and an end date
```

```
                        associated with them and are issued
                        once per UDI.
        extensionSubscription(7)- Extension subscription licenses are
                        similar to evaluation subscription
                        licenses but these licenses are issued
                        based on customer request. There are
                        no restrictions on the number of
                        licenses available for a UDI.
        evalRightToUse(8)       - Evaluation Right to use (RTU)
        license.
        rightToUse(9)           - Right to use (RTU) license.
        permanentRightToUse(10) ? Right To Use license right after it is configured
                        and is valid for the lifetime of
the product.
                        This is a Right To Use license which is not in
                        evaluation mode for a limited time.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
    }

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

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

    leaf clmgmtLicenseValidityPeriodRemaining {
      type uint32;
      units "seconds";
      description
```

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

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

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

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

     leaf clmgmtLicenseEULAStatus {
```

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

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

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

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

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

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

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

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

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

 leaf clmgmtLicensePeriodUsed {
  type uint32;
```

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

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

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

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

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

```
      }

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

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

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

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

      leaf clmgmtFeatureWhatIsCounted {
```

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

    leaf clmgmtFeatureStartDate {

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

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

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

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

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

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

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

       1. CREATE-AND-GO method
          Management application sets clmgmtDevCredExportActionStatus
          to createAndGo(4) and all other required objects to valid
          values in a single SNMP SET request. If all the values
          are valid, the device creates the entry and executes the
          action. If
the SET request fails, the entry will not be
          created.
       2. CREATE-AND-WAIT method
          Management application sets clmgmtDevCredExportActionStatus to
          createAndWait(5) to create an entry. Management application
          can set all other required objects to valid
          values in more than one SNMP SET request. If SET request
          for any of the objects fails, management application can set
          just only that object. Once all the required objects
          are set to valid values, management application triggers action
          execution by setting clmgmtDevCredExportActionStatus to
          active(1).

       To stop the action from being executed, the management application
```

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

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

        Entry can be deleted except when clmgmtLicenseAction is set
        to inProgress(3). All entries in this table are volatile
        and are cleared on agent reset.";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

      leaf clmgmtDevCredExportActionIndex {
        type uint32 {
          range "1..4294967295";
        }
        description
         "This object uniquely identifies a row in
          clmgmtDevCredExportActionTable. The management application
          chooses this value by reading
          clmgmtNextFreeDevCredExportActionIndex while creating an
          entry in this table.
If an entry already exists with this
          index, the creation of the entry will not continue and
          error will be returned. The management application should
          read the value of clmgmtNextFreeDevCredExportActionIndex
          again and retry with the new value for this object.";
        smiv2:max-access "not-accessible";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
      }

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

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

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

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

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

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

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

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

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
```

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

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

leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
   "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
     sftp(8). Reading it returns a zero-length string for
    security reasons.";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

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

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
```

```
        enum "getDeviceCredentials" {
          value "2";
        }
      }
      description
       "This object indicates the the command to be executed.

        Command                        Remarks
        -------
        -------
        noOp(1)                        No operation will be
                                     performed.

        getDeviceCredentials(2)        Exports device credentials";
      smiv2:defval "noOp";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
    }

    leaf clmgmtDevCredCommandState {
      type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
      description
       "This object indicates the state of the action that is
        executed as a result of setting clmgmtDevCredRowStatus
        to active(1).";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
    }

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

```
          value "6";
        }
      }
      description
       "This object indicates the the reason for device
        credentials export operation failure.

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

        none(1)        - action execution has not started yet.
                       If the action is completed and the
                       action is successful, then also
                       none(1) is returned to indicate that
                       there are no errors.
        unknownError(2) - reason for failure is unknown,
                       operation failed, no
operation is
                       performed
        transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
                                  given is not supported.
        fileServerNotReachable(4)       - file server is not reachable.
        unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
                                  valid
        invalidFile(6)  - The target file specified is not valid.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";
    }

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

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

```
          the only operation possible after this is to delete
          the row.

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

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

  container object-1 {

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

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

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

  container object-2 {
```

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

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

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

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

   container object-1 {

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

    leaf clmgmtFeatureIndex {
```

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

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

  container object-2 {


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

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

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

  container object-3 {

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

```
mib:entPhysicalIndex";
      }
    }


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

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

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

  container object-1 {

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

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

    leaf clmgmtLicenseIndex {
      type leafref {
```

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

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

  container object-2 {

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

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

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

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

```
 }

  container object-3 {

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

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

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

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

  container object-4 {

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

    leaf clmgmtFeatureIndex {
      type leafref {
```

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

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

  container object-5 {

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

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

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

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

```
 }

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

  container object-1 {

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

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

    leaf clmgmtLicenseIndex {
      type leafref {

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

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

```
  container object-2 {

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

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

  }

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

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

  container object-3 {

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

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

```
mib:clmgmtLicenseStoreUsed";
      }
    }

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

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

  container object-4 {

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

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

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

    leaf clmgmtLicenseUsageCountRemaining {
      type leafref {
```

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

  container object-5 {

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

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

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

  container object-6 {

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

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

```
      }
    }

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

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

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

  container object-1 {

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

    }
    }

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

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

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

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

  container object-2 {

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

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

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

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

```
  container object-3 {

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

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

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

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

  container
 object-4 {

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

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

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

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

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

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

  container object-1 {

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

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

    leaf clmgmtLicenseIndex {
      type leafref {
```

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

    }

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

  container object-2 {

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

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

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

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

```
  }

  container object-3 {

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

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

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

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

  container object-4 {

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

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

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

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

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

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

  container object-1 {

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

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

    leaf clmgmtLicenseIndex {
```

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

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

  container object-2 {

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

    leaf clmgmtLicenseStoreUsed {

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

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

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

```
    }
  }

  container object-3 {

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

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

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

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

  container object-4 {

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

    leaf clmgmtLicenseStoreUsed {
      type leafref {
```

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

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

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

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

  container object-1 {

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

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

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

  container object-2 {

    leaf entPhysicalIndex {

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

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

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

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

```
  container object-1 {

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

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

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

  container object-2 {

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

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

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

```
mib:clmgmtFeatureVersion";
      }
    }
  }
 }

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

  container object-1 {

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

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

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

  container object-2 {

    leaf
 entPhysicalIndex {
      type leafref {
```

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

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

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

  container object-3 {

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

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

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

```
 }

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

   container object-1 {

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

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

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

   container object-2 {

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

     leaf clmgmtFeatureIndex {
       type leafref {
```

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

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

  container object-3 {

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

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

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

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

```
  container object-1 {

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

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

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

  container object-2 {

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

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

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

```
mib:clmgmtFeatureVersion";
        }
      }
    }

    container object-3 {

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

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

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

      }
      }
    }
  }

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

    container object-1 {

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

```
    }

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

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

  container object-2 {

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

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

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

   container object-3 {

    leaf entPhysicalIndex {
```

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

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

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

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

  container object-1 {

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

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

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

  container object-2 {

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

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

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

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

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

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

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

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

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

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

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

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

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

}
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//     http://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
-- ***********************************************************************
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
```

```
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- ******************************************************************

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

IMPORTS
  OBJECT-TYPE,
  MODULE-IDENTITY,
  Unsigned32,
  NOTIFICATION-TYPE
     FROM SNMPv2-SMI
  MODULE-COMPLIANCE,
  OBJECT-GROUP,
  NOTIFICATION-GROUP
     FROM SNMPv2-CONF
  TEXTUAL-CONVENTION,
  TruthValue
     FROM SNMPv2-TC
  SnmpAdminString
     FROM SNMP-FRAMEWORK-MIB
  entPhysicalIndex
     FROM ENTITY-MIB
  ciscoMgmt
     FROM CISCO-SMI;


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

     Postal: 170 W Tasman Drive
         San Jose, CA  95134
         USA
         Tel: +1 800 553 -NETS
         E-mail: cs-snmp@cisco.com"
  DESCRIPTION
     "The MIB module for managing the running image level
     of a Cisco device. Cisco's licensing mechanism provides
     flexibility to run a device on a chosen image level.
     This mechanism is referred to as image level licensing.
     Image level licensing leverages the universal image
     based licensing solution.
```

The image level licensing mechanism works as follows -

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

Scenario 1:
- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features that are part of the
base advsecurity license.
- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the
next reboot. After reboot the device will run
advipservicesk9 features.

Scenario 2:
- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity
license on the device.
- This device will run all features that are part of the
base advipservices license.
- No upgrades available for advipservices license.

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

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

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

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

```
      the EULA and to configure the required license.

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

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


ciscoImageLicenseMgmtMIBNotifs  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 2 }


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

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

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

      If the license required to run a device at
      advipservices image level is advipservices and
      advsecurity, then the license name list will be
      'advipservices,advsecurity'."
  SYNTAX         OCTET STRING (SIZE (0..255))
```

```
-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF CilmBootImageLevelEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "A table that contains the configuration information of
     current and next boot image level. This table contains
     entries for each software module running in an image
     loaded in the device. The software module is identified by
     cilmModuleName and the device is identified by
     entPhysicalIndex."
  ::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry
 OBJECT-TYPE
  SYNTAX          CilmBootImageLevelEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in the table for each module containing the
     list of objects that define the configuration of next
     boot level. The following information is specified by
     the objects present in the table.

     - Current image level.
     - Configured image level for the next boot.
     - Actual image level for the next boot.
     - License store index for the current license.
     - License index of the current license.
     - License store index for the next boot license.
     - License index of the next boot license."
  INDEX           {
                    entPhysicalIndex,
                    cilmModuleName
                }
  ::= { cilmBootImageLevelTable 1 }

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

```
    cilmNextBootLicenseIndex      Unsigned32
}

cilmModuleName OBJECT-TYPE
  SYNTAX         SnmpAdminString
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This object is used as one of the two indices in
     cilmBootImageLevelTable. This object indicates the module
     name of the software package. There can be multiple
     modules in an image performing specific functionality.
     For example, in a wireless image there can be two modules
     - a base image module and a wireless module."
  ::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE
  SYNTAX         BootImageLevel
  MAX-ACCESS      read-only
  STATUS
        current
  DESCRIPTION
     "This object indicates the current image level that
     the module is running."
  ::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE
  SYNTAX         BootImageLevel
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION
     "This object indicates the configured image level
     of the module for the next boot.

     Note: The configured next boot image level may not
     be the actual next boot image level. The actual next
     boot image level is denoted by cilmNextBootImageLevel
     which is determined based on the license availability."
  ::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE
  SYNTAX         BootImageLevel
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates the next boot image level. The
     next boot image level can be different from configured
     level. The next boot
```

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

cilmCurrentLicenseStoreIndex OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the license store index where the
      currently used license is stored. This object has the same
      value as clmgmtLicenseStoreIndex object and uniquely
      identifies an entry in clmgmtLicenseStoreInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license store index can be '0' if no license is
      installed and device is running base image."
  ::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the license index of the currently used
      license. This object has the same value as clmgmtLicenseIndex
 and
      uniquely identifies an entry in clmgmtLicenseInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license index can be '0' if no license is
      installed and device is running base image."
  ::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the license store index where the
      next boot license is stored. This object has the same
      value as clmgmtLicenseStoreIndex object and uniquely
      identifies an entry in clmgmtLicenseStoreInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license store index can be '0' if no license is
      installed for the next boot."
  ::= { cilmBootImageLevelEntry 7 }
```

```
cilmNextBootLicenseIndex OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates
 the license index of the next boot
     license. This object has the same value as clmgmtLicenseIndex
     and uniquely identifies an entry in clmgmtLicenseInfoTable in
     CISCO-LICENSE-MGMT-MIB.

     Note: The license index can be '0' if no license is
     installed for the next boot."
  ::= { cilmBootImageLevelEntry 8 }



cilmImageLevelToLicenseMapTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF CilmImageLevelToLicenseMapEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This table contains the mapping between different
     image levels of each modules in the image and the
     license required to run the modules at a particular
     image level. This table can be used to identify the
     different image levels and the appropriate licenses
     required for each."
  ::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE
  SYNTAX          CilmImageLevelToLicenseMapEntry
   MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in the table containing the following
     information.
     - The image levels at the which the modules can be run.
     - The license required to the run a module at a
     particular image level.
     - The priority of the license."
  INDEX           {
                    entPhysicalIndex,
                    cilmModuleName,
                    cilmImageLicenseMapIndex
                  }
  ::= { cilmImageLevelToLicenseMapTable 1 }
```

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

cilmImageLicenseMapIndex OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
      "This is a running
 index used to identify an entry
      of this table."
  ::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE
  SYNTAX          BootImageLevel
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the image level at which
      a module can be run. A module can be run at
      different image levels. An entry will be created
      in this table for every module and image level
      combination."
  ::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE
  SYNTAX          LicenseNameList
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the list of licenses needed to
      be installed for the module to run at the image level
      mentioned by cilmImageLicenseImageLevel object of this
      entry."
  ::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE
  SYNTAX          Unsigned32
 (1..255)
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the priority of the image level
```

```
      mentioned by cilmImageLicenseImageLevel object of this
      entry. The image level with the highest priority license
      will be considered as the default level in the absense of
      next boot image level configuration. For example if there
      are three licenses l1, l2 and l3 in the ascending order of
      priority, then by default l1 will be the level at which the
      module will be running. If the next boot level is configured
      then the configuration will override the priority. The highest
      priority license supports a feature set which is a super set of
      all other licenses."
  ::= { cilmImageLevelToLicenseMapEntry 4 }



-- Global Objects

cilmEULAAccepted OBJECT-TYPE
  SYNTAX          TruthValue
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION

 "This object when set to TRUE means that the user has
      accepted the END USER LICENSE AGREEMENT. This object
      has to be set to TRUE by the user before using the
      objects in the cilmBootImageLevelTable to configure
      the license."
  DEFVAL          { false }
  ::= { ciscoImageLicenseMgmtMIBObjects 3 }
-- Notification control

cilmNotifCntl  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBObjects 4 }


cilmImageLevelChangedNotif OBJECT-TYPE
  SYNTAX          TruthValue
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION
      "Specify whether or not a notification should be
      generated on the detection of change in next boot
      image level.

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

```
      notification to be delivered."
    REFERENCE
      "See also RFC3413 for explanation that notifications
      are under the ultimate control of the MIB module in
      this document."
  DEFVAL         { false }
  ::= { cilmNotifCntl 1 }

-- Notifications

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

cilmModuleCompliances  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBConform 2 }


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

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

-- Units of Conformance
```

```
cilmAdminGroup OBJECT-GROUP
  OBJECTS        {
                 cilmCurrentImageLevel,
                 cilmConfiguredBootImageLevel,
                 cilmNextBootImageLevel,
                 cilmCurrentLicenseStoreIndex,
                 cilmCurrentLicenseIndex,
                 cilmNextBootLicenseStoreIndex,
                 cilmNextBootLicenseIndex,
                 cilmEULAAccepted,
                 cilmImageLevelChangedNotif

          }
  STATUS         current
  DESCRIPTION
     "Objects for performing license set operation for setting
     next boot level."
  ::= { cilmModuleGroups 1 }

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

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

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

```
-- ******************************************************************

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

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


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

         Postal: 170 W Tasman Drive

         San Jose, CA  95134

         USA

         Tel: +1 800 553 -NETS

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

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

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

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

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

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

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

EULA:
End User License Agreement.

EVALUATION LICENSE:
Evaluation licenses are non-node locked metered
licenses which are valid only for a limited period.
They are used only when there are no permanent,
extension or grace period licenses for a feature.
User
will have to accept EULA (End User License
Agreement) before using an evaluation license. Even
though they are not node locked, their usage is
recorded on the device.

RIGHT TO USE (RTU) LICENSE:
Right to use license is a non-node locked metered

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

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

EULA as part of installation of extension license.

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

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

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

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

License can be enforced at the image level or at the feature

level and this MIB module supports both.

IMAGE LEVEL LICENSING:

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

FEATURE LEVEL LICENSING:

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

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

LICENSE LINE:

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

LICENSE FILE:

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

DEVICE CREDENTIALS:

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

REHOST:

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

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

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

LICENSING PORTAL:
Generates licenses, permission tickets and verifies device credentials and rehost tickets.

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

STEPS TO INSTALL A LICENSE:
To install a license, the management application
1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:
To clear a license, the management application
1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

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

the new device to identify the device, gets license
file.
6. Executes the license install action on the new
device.

STEPS TO REGENERATE LAST REHOST TICKET:
To regenerate last rehost ticket, the management
application
1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or
communicates with Cisco's licensing portal to get
the permission ticket, uses device credentials to
identify the device.
3. Executes the regenerateLastRehostTicket action.
Device generates rehost ticket to be submitted as
proof of revocation.

STEPS TO BACKUP ALL LICENSES:
To backup all licenses installed in the device, the
management application
1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE
& EXPORT EULA:
To install certain kind of licenses, the management
application must accept EULA first. The management
application can generate and export EULA for one or
more licenses with out installing licenses as follows.
1. Specifies the license file path that has licenses to be
installed
2. Specifies the EULA file path where EULA need to be
exported to
3. Executes the generate EULA action.

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

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

This MIB module also defines various notifications
that
will be triggered to asynchronously notify the management

```
    application of any critical events.

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

    entPhysicalIndex imported from ENTITY-MIB is used to
    identify the device uniquely. It is specified
as the index
    or one of the index for tables in this MIB as needed."
  REVISION       "201204190000Z"
  DESCRIPTION
    "This version of the MIB adds support for Permanent Right to use (RTU)
    licensing. The revisions are:
    o Updated clmgmtLicenseType object to support the following new
      types of license:
      permanentRightToUse

    The new module compliance is ciscoLicenseMgmtComplianceRev1."

  REVISION       "201104190000Z"
  DESCRIPTION
    "This version of the MIB adds support for Right to use (RTU)
    licensing. The revisions are:
    o Added RTU license definition to MIB description above.
    o Updated clmgmtLicenseType object to support the following new
      types of license:
      evalRightToUse
      rightToUse
    o Added following objects to clmgmtLicenseInfoTable
      clmgmtLicensePeriodUsed
    o Added following objects to clmgmtLicensableFeatureTable
      clmgmtFeaturePeriodUsed
     o Added the following notifications
      clmgmtLicenseEvalRTUTransitionWarning
      clmgmtLicenseEvalRTUTransition
    o Added the following conformance groups
      clmgmtLicenseRTUGroup
      clmgmtLicenseRTUUsageNotifGroup
```

```
      The new module compliance is ciscoLicenseMgmtComplianceRev1."
   REVISION       "200811210000Z"
   DESCRIPTION
      "This version of the MIB adds support for subscription
      licensing. Subscription licenses provide software
      enforcement for a licensed feature for a fixed calendar
      period. The revisions are:
      o Updated clmgmtLicenseType object to support the following three
        new types of licenses:
            paidSubscription
            evaluationSubscription
            extensionSubscription
      o Added following objects to clmgmtLicenseInfoTable
            clmgmtLicenseStartDate
            clmgmtLicenseEndDate
      o Added following
 objects to clmgmtLicensableFeatureTable
            clmgmtFeatureStartDate
            clmgmtFeatureEndDate
      o Added the following notifications
            clmgmtLicenseSubscriptionExpiryWarning
            clmgmtLicenseSubscriptionExtExpiryWarning
            clmgmtLicenseSubscriptionExpired
      o Added the following conformance groups
            clmgmtLicenseSubscriptionGroup
            clmgmtLicenseSubscriptionUsageNotifGroup
      The new module compliance is ciscoLicenseMgmtComplianceRev1."
   REVISION       "200610030000Z"
   DESCRIPTION
      "Initial version of this MIB module."
   ::= { ciscoMgmt 543 }


ciscoLicenseMgmtMIBNotifs  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation
```

```
  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects  OBJECT IDENTIFIER
   ::= { ciscoLicenseMgmtMIBObjects 4 }


ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION
   STATUS         current
   DESCRIPTION
      "A unique value, for each license in the managed system.
      It is not necessary to have values assigned contiguously.
      The value for each license must remain constant
      at least from one re-initialization of the entity's
      network management system to the next re-initialization"
   SYNTAX         Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION
   STATUS         current
   DESCRIPTION
      "This textual convention is an extension of the ClmgmtLicenseIndex
      convention.  The latter defines a greater than zero value
      used to identify a license in the managed system.
  This
      extension permits the additional value of zero. The value
      zero is object-specific and must therefore be defined as
      part of the description of any object which uses this
      syntax. Examples of the usage of zero might include
      situations where license was not present or unknown."
   SYNTAX         Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION
   STATUS         current
   DESCRIPTION
      "The transfer protocol that should be used for copying files
      when performing license management. When the protocol is
      set to local(2), local file system (flash or disk) is used.
      Different agents may support different transfer protocols
      and the management application is expected to some how determine
      which protocol is supported and use."
   SYNTAX         INTEGER  {
                     none(1),
                     local(2),
                     tftp(3),
                     ftp(4),
```

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

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION
  STATUS        current
  DESCRIPTION
    "The state of license action execution.

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

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

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

    successful(4)        - action has completed successfully.

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

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

    failed(6)            - action has failed."
  SYNTAX        INTEGER  {
                none(1),
                pending(2),
                inProgress(3),
                successful(4),
                partiallySuccessful(5),
                failed(6)
            }

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION
  STATUS        current
  DESCRIPTION
    "Reason for license action failure. Defines error codes for
    all the license actions.
```

none(1) - action execution has not
started yet. If the action
is
completed and the action
is successful, then also
none(1) is returned to
indicate that there are no
errors.
generalFailure(2) - General licensing failure.
This will be used for resource
unavailability failures.
Ex: Lack of memory.
transferProtocolNotSupported(3) - protocol selected is not
supported.
fileServerNotReachable(4) - file server is not reachable.
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid
invalidLicenseFilePath(6) - The license file path is not
accessible.
invalidLicenseFile(7) - Contents of license file are

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

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

      error code is sent back in
                        response to a license backup
                        action when a license clear
                        action is in progress or in
                        pending state. Try again in few
                        seconds.
    invalidLicenseEULAFile(22) -  EULA file path is not accessible."
  SYNTAX        INTEGER  {
                none(1),
                generalFailure(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidLicenseFilePath(6),
                invalidLicenseFile(7),
                invalidLicenseLine(8),
                licenseAlreadyExists(9),
                licenseNotValidForDevice(10),
                invalidLicenseCount(11),

              invalidLicensePeriod(12),
                licenseInUse(13),
                invalidLicenseStore(14),
                licenseStorageFull(15),
                invalidPermissionTicketFile(16),
                invalidPermissionTicket(17),
                invalidRehostTicketFile(18),
                invalidRehostTicket(19),
                invalidLicenseBackupFile(20),
                licenseClearInProgress(21),
                invalidLicenseEULAFile(22)
              }

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS      read-only
  STATUS        current
  DESCRIPTION
    "This object contains appropriate value for
    clmgmtLicenseActionIndex that can be used to create
```

```
      an entry in clmgmtLicenseActionTable. The management application
      should read this object first and then use this as the
      value
 for clmgmtLicenseActionIndex to avoid collisions
      when creating entries in clmgmtLicenseActionTable.
      Following this approach does not guarantee collision free
      row creation, but will reduce the probability. The
      collision will happen if two management applications read this
      object at the same time and attempt to create an entry
      with this value at the same time. In this case, the
      management application whose request is processed after the first
      request will get an error and the process of reading this object
      and entry creation needs to be repeated."
  ::= { clmgmtLicenseConfiguration 1 }
-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF ClmgmtLicenseActionEntry
  MAX-ACCESS      not-accessible
  STATUS         current
  DESCRIPTION
      "A table for invoking license management actions. Management
      application must create a row
 in this table to trigger any of
      the license management actions. The following are different
      actions that can be executed using this table.
         1. install
         2. clear
         3. processPermissionTicket
         4. regenerateLastRehostTicket
         5. backup
         6. generateEULA

      Refer to the description of clmgmtLicenseAction for more
      information on what these actions do on the device.
      Once the request completes, the management application should
      retrieve the values of the objects of interest, and then
      delete the entry.  In order to prevent old entries from
      clogging the table, entries will be aged out, but an entry
      will never be deleted within 5 minutes of completion."
  ::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE
  SYNTAX         ClmgmtLicenseActionEntry
  MAX-ACCESS      not-accessible
  STATUS         current
  DESCRIPTION
      "An
```

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

1. CREATE-AND-GO method
   Management application sets clmgmtLicenseActionRowStatus to
   createAndGo(4) and all other required objects to valid
   values in a single SNMP SET request. If all the values
   are valid, the device creates the entry and executes the
   action. If the SET request fails, the entry will not be
   created.
2. CREATE-AND-WAIT method
   Management application sets clmgmtLicenseActionRowStatus to
   createAndWait(5) to create an entry. Management application
   can set all other required objects to valid
   values in more than one SNMP SET request. If SET request
   for any of the objects fails, management application can
set
   just only that object. Once all the required objects
   are set to valid values, management application triggers
action
   execution by setting clmgmtLicenseActionRowStatus to
   active(1).

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

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

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

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

license

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

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

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

2. Clearing a license

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

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

3. Revoking a license

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

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

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating

last rehost ticket

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

5. Save all licenses to a backup storage

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

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

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

The following MIB objects need to be set exporting required EULAs

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

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

a. clmgmtLicenseServerAddressType

b. clmgmtLicenseServerAddress
c. clmgmtLicenseServerUsername
d. clmgmtLicenseServerPassword

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

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

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

clmgmtLicenseActionIndex OBJECT-TYPE
  SYNTAX          Unsigned32 (1..4294967295)
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
      "This object uniquely identifies a row in
      clmgmtLicenseActionTable.
 The management application should choose
      this value by reading clmgmtNextFreeLicenseActionIndex
      while creating an entry in this table. If an entry already
      exists with this index, the creation of the entry will not
      continue and error will be returned. The management application
      should read the value of clmgmtNextFreeLicenseActionIndex
      again and retry with the new value for this object."
  ::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE
  SYNTAX          PhysicalIndexOrZero
  MAX-ACCESS      read-create
```

```
  STATUS        current
  DESCRIPTION
     "This object represents the entPhysicalIndex of the device
     where the action is being executed. This object is mainly
     used in devices where one device is acting as a master and
     rest of the devices as slaves. The master device is
     responsible for SNMP communication with the management
     application. Examples
 include stackable switches, devices
     with route processor and line card configuration. If this
     object is not set, the license action will be executed on
     the master device. Note: This object need not be set if
     there is a stand alone device"
  DEFVAL        { 0 }
  ::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE
  SYNTAX        ClmgmtLicenseTransferProtocol
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object represents the transfer protocol to be used
     when copying files as specified in the following objects.
     1. clmgmtLicenseFile
     2. clmgmtLicensePermissionTicketFile
     3. clmgmtLicenseRehostTicketFile
     4. clmgmtLicenseBackupFile

     Note: This object need not be set if the all the files
     required for the action are in device's local file system."
  DEFVAL        { none }
  ::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType
 OBJECT-TYPE
  SYNTAX        InetAddressType
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the transport type of the
     address contained in clmgmtLicenseServerAddress object.
     This must be set when clmgmtLicenseActionTransferProtocol
     is not none(1) or local(2)."
  DEFVAL        { unknown }
  ::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE
  SYNTAX        InetAddress
```

```
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object indicates the ip address of the server from
     which the files must be read or written to if
     clmgmtLicenseActionTransferProtocol is not none(1) or
     local(2).

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

     The format of this address depends on the value of the
     clmgmtLicenseServerAddressType object"
  DEFVAL
        { "" }
  ::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE
  SYNTAX          SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object indicates the remote user name for accessing
     files via ftp, rcp, sftp or scp protocols. This object must
     be set when the clmgmtLicenseActionTransferProtocol is
     ftp(4), rcp(5), scp(7) or sftp(8). If
     clmgmtLicenseActionTransferProtocol is rcp(5), the remote
     username is sent as the server username in an rcp command
     request sent by the system to a remote rcp server."
  DEFVAL          { "" }
  ::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE
  SYNTAX          SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object indicates the password used by ftp, sftp or
     scp for copying a file to/from
 an ftp/sftp/scp server.
     This object must be set when the
     clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
     or sftp(8). Reading it returns a zero-length string for
     security reasons."
  DEFVAL          { "" }
  ::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE
```

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

clmgmtLicenseStore OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      read-create

 STATUS          current
  DESCRIPTION
     "This object represents the clmgmtLicenseStoreIndex of the
     license store to use within the device. The license store
     can be a local disk or flash. A device can have more than
     one license stores. If this object is not set, the license
     will be stored in the default license store as exposed by
     clmgmtDefaultLicenseStore object."
  DEFVAL          { 0 }
  ::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE
  SYNTAX          ClmgmtLicenseIndexOrZero
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object indicates the the license index of the license
     that is the subject of this action. This is used for
     identifying a license for performing actions specific to
     that license. This object need to be set only if
     clmgmtLicenseAction is set to clear(4). The value of this
     object is same as the clmgmtLicenseIndex
 object in
     clmgmtLicenseInfoEntry for license that is subject of this
     action."
  DEFVAL          { 0 }
  ::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE
  SYNTAX          SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS      read-create
```

```
  STATUS        current
  DESCRIPTION
     "This object indicates the file name of the permission
     ticket. This object need to be set only if
     clmgmtLicenseAction is set to processPermissionTicket(4)
     or regenerateLastRehostTicket(5) actions. The permission
     ticket is obtained from Cisco licensing portal to revoke
     a license. The management application must set this object
     to valid value before invoking the action."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS        current
   DESCRIPTION
     "This object indicates the file where the rehost ticket
     generated by the device need to be exported to. The rehost
     ticket is generated as a result of processPermissionTicket
     and regenerateLastRehostTicket actions. After generating
     the rehost ticket, the device exports the rehost ticket
     contents to this file. This object need to be set only
     if clmgmtLicenseAction is set to processPermissionTicket(4)
     or regenerateLastRehostTicket(5) actions."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the file where all the licenses in
     the device need to be backed up. This object need to be set
     only if clmgmtLicenseAction is set to backup(6) and the
     management application must set the
 value of this  object
     to valid value before invoking action."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates whether the license action should
```

```
    stop if the action on a license fails. This object is
    applicable only if there are more than one licenses
    involved in an action."
  DEFVAL        { false }
  ::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE
  SYNTAX        INTEGER  {
                noOp(1),
                install(2),
                clear(3),
                processPermissionTicket(4),
                regenerateLastRehostTicket(5),
                backup(6),
                generateEULA(7)
              }
  MAX-ACCESS     read-create
  STATUS
 current
  DESCRIPTION
    "This object indicates the the command/action to be executed.

    Command                     Remarks
    -------                   -------
    noOp(1)                     No operation will be
                          performed.

    install(2)                 Installs the license.

    clear(3)                   Clears the license.

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

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

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

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

```
  DEFVAL        { noOp }
  ::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE
  SYNTAX        ClmgmtLicenseActionState
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the state of this license action."
  ::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE
  SYNTAX        Unsigned32
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object represents the position of the action
     in the license action job queue that is maintained
     internally. Only actions in pending(2) state will
     be put in the queue until they are executed. By
     reading this object, the management
 application can make
     intelligent decision on whether to execute another
     action that it is planning on. For example, if there
     is already a license clear action in the queue in
     pending(2) state, management application can choose to
     defer its license back up action to a later time. This
     object will return a value of 0 if the action is not in
     pending(2) state."
  ::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE
  SYNTAX        ClmgmtLicenseActionFailCause
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the reason for this license action
     failure. The value of this object is valid only when
     clmgmtLicenseActionState is failed(6)."
  ::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE
  SYNTAX        StorageType
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
```

```
 "This object indicates the storage type for this conceptual
     row. Conceptual rows having the value 'permanent' need not
     allow write-access to any columnar objects in the row."
  DEFVAL        { volatile }
  ::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE
  SYNTAX        RowStatus
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the the status of this table entry.
     Once the entry status is set to active(1), the associated
     entry cannot be modified until the action completes
     (clmgmtLicenseConfigCommandStatus is set to a value
     other than inProgress(3)). Once the action completes
     the only operation possible after this is to delete
     the row. It is recommended that the management application
     should delete entries in this table after reading
     the result. In order to prevent old entries from
     clogging the table, entries
 will be aged out, but an
     entry will never be deleted within 5 minutes of
     completion"
  ::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates whether the End User License Agreement
     needed for installing the licenses is accepted.

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

     Management application should set this object to true(1) when
     installing licenses that need EULA acceptance."
  DEFVAL        { false }
  ::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the file where all the End User License
```

```
      Agreements (EULAs) need to be exported to. This object need
 to
      be set only if clmgmtLicenseAction is set to generateEULA(7) and
      the management application must set the value of this object to
      valid value before invoking action."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 22 }


-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF ClmgmtLicenseActionResultEntry
  MAX-ACCESS      not-accessible
  STATUS         current
  DESCRIPTION
      "This table contains results of license action if the
      license action involves multiple licenses. Entries in this
      table are not created for actions where there is
      only license that is subject of the action. For
      example, if there are 3 licenses in a license file
      when executing license install action, 3 entries will
      be created in this table, one for each license."
  ::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE
  SYNTAX
        ClmgmtLicenseActionResultEntry
  MAX-ACCESS      not-accessible
  STATUS         current
  DESCRIPTION
      "An entry in clmgmtLicenseActionResultTable. Each entry
      contains result of the action for a single license.
      These entries are created immediately after action
      execution when the action involves multiple licenses.
      These entries get automatically deleted when the
      corresponding entry in clmgmtLicenseActionTable
      is deleted."
  INDEX          {
                    clmgmtLicenseActionIndex,
                    clmgmtLicenseNumber
                 }
  ::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
      clmgmtLicenseNumber              Unsigned32,
      clmgmtLicenseIndivActionState     ClmgmtLicenseActionState,
      clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
```

```
}

clmgmtLicenseNumber OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
   MAX-ACCESS     not-accessible
  STATUS        current
  DESCRIPTION
     "This object indicates the sequence number of this license
     in the list of licenses on which the action is executed.
     For example, if there are 3 licenses in a license file
     when executing license install action, this object will
     have values 1, 2 and 3 respectively as ordered in the
     license file."
  ::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE
  SYNTAX        ClmgmtLicenseActionState
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the state of action on this
     individual license."
  ::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
  SYNTAX        ClmgmtLicenseActionFailCause
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the reason for action failure
 on this
     individual license"
  ::= { clmgmtLicenseActionResultEntry 3 }


-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicenseStoreInfoEntry
  MAX-ACCESS     not-accessible
  STATUS        current
  DESCRIPTION
     "This table contains information about all the license
     stores allocated on the device."
  ::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicenseStoreInfoEntry
```

```
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in clmgmtLicenseStoreInfoTable. Each entry
     contains information about a license store allocated
     on the device"
  INDEX           {
                    entPhysicalIndex,
                    clmgmtLicenseStoreIndex
                  }
  ::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
     clmgmtLicenseStoreIndex
       Unsigned32,
     clmgmtLicenseStoreName          SnmpAdminString,
     clmgmtLicenseStoreTotalSize     Unsigned32,
     clmgmtLicenseStoreSizeRemaining Unsigned32
}

clmgmtLicenseStoreIndex OBJECT-TYPE
  SYNTAX          Unsigned32 (1..4294967295)
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This object uniquely identifies a license store within
     the device."
  ::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE
  SYNTAX          SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates the name of the license store
     within the device. It is a file in device's local file
     system i.e., either on a local disk or flash or some
     other storage media. For example, the value of this
     object can be 'disk1:lic_store_1.txt' or
     'flash:lic_store_2.txt"
  ::= { clmgmtLicenseStoreInfoEntry
 2 }

clmgmtLicenseStoreTotalSize OBJECT-TYPE
  SYNTAX          Unsigned32
  UNITS           "bytes"
  MAX-ACCESS      read-only
  STATUS          current
```

```
  DESCRIPTION
     "This object indicates the total number of bytes that are
     allocated to the license store."
  ::= { clmgmtLicenseStoreInfoEntry 3 }

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE
  SYNTAX          Unsigned32
  UNITS           "bytes"
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates the number of bytes still remaining
     to be used for new license installations in the license
     store."
  ::= { clmgmtLicenseStoreInfoEntry 4 }


-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF ClmgmtLicenseDeviceInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This table contains objects that provide licensing related
     information
 at the device level. Entries will exist
     only for entities that support licensing. For example,
     if it is a stand alone device and supports licensing,
     then there will be only one entry in this table. If
     it is stackable switch then there will be multiple
     entries with one entry for each device in the stack."
  ::= { clmgmtLicenseInformation 2 }

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
  SYNTAX          ClmgmtLicenseDeviceInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in clmgmtLicenseDeviceInfoTable. Each entry
     contains device level licensing information for a device."
  INDEX           { entPhysicalIndex }
  ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
     clmgmtDefaultLicenseStore Unsigned32
}
```

```
clmgmtDefaultLicenseStore OBJECT-TYPE
  SYNTAX          Unsigned32 (1..4294967295)
  MAX-ACCESS      read-only
  STATUS
   current
  DESCRIPTION
     "This object indicates the clmgmtLicenseStoreIndex of
     default store in the device. There will be only one
     default license store per device. If no license store
     is specified during license install, this default license
     store will be used."
  ::= { clmgmtLicenseDeviceInfoEntry 1 }


-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF ClmgmtLicenseInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This table contains information about all the licenses
     installed on the device."
  ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
  SYNTAX          ClmgmtLicenseInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in clmgmtLicenseInfoTable. Each entry contains
     information about a license installed on the device. This
     entry gets created when
 a license is installed successfully.
     Management application can not create these entries directly, but
     will do so indirectly by executing license install action.
     Some of these entries may already exist that correspond to
     demo licenses even before management application installs any
     licenses."
  INDEX           {
                    entPhysicalIndex,
                    clmgmtLicenseStoreUsed,
                    clmgmtLicenseIndex
                  }
  ::= { clmgmtLicenseInfoTable 1 }

ClmgmtLicenseInfoEntry ::= SEQUENCE {
     clmgmtLicenseStoreUsed              Unsigned32,
```

```
    clmgmtLicenseIndex                  ClmgmtLicenseIndex,
    clmgmtLicenseFeatureName            SnmpAdminString,
    clmgmtLicenseFeatureVersion         SnmpAdminString,
    clmgmtLicenseType                   INTEGER,
    clmgmtLicenseCounted                TruthValue,
    clmgmtLicenseValidityPeriod         Unsigned32,
     clmgmtLicenseValidityPeriodRemaining Unsigned32,
    clmgmtLicenseExpiredPeriod          Unsigned32,
    clmgmtLicenseMaxUsageCount          Unsigned32,
    clmgmtLicenseUsageCountRemaining    Unsigned32,
    clmgmtLicenseEULAStatus             TruthValue,
    clmgmtLicenseComments               SnmpAdminString,
    clmgmtLicenseStatus                 INTEGER,
    clmgmtLicenseStartDate              DateAndTime,
    clmgmtLicenseEndDate                DateAndTime,
    clmgmtLicensePeriodUsed             Unsigned32
}

clmgmtLicenseStoreUsed OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "This object represents the license store that is used for
    storing this license. This object will have the same value
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
    of the license store used."
  ::= { clmgmtLicenseInfoEntry
 1 }

clmgmtLicenseIndex OBJECT-TYPE
  SYNTAX        ClmgmtLicenseIndex
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "This object uniquely identifies a license within
    the device."
  ::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'."
```

```
  ::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS      read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the version of the feature that is
     using or can use this license. Examples of feature version
      are: '1.0', '2.0'"
  ::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE
  SYNTAX         INTEGER  {
                  demo(1),
                  extension(2),
                  gracePeriod(3),
                  permanent(4),
                  paidSubscription(5),
                  evaluationSubscription(6),
                  extensionSubscription(7),
                  evalRightToUse(8),
                  rightToUse(9),
                  permanentRightToUse(10)
                }
  MAX-ACCESS      read-only
  STATUS         current
  DESCRIPTION
     "This object identifies type of license. Licenses may have
     validity period defined in terms of time duration that the
     license is valid for or it may be defined in terms of actual
     calendar dates. Subscription licenses are licenses that have
     validity period defined in terms of calendar dates.

     demo(1)
           - demo(evaluation license) license.
     extension(2)         - Extension(expiring) license.
     gracePeriod(3)       - Grace period license.
     permanent(4)         - permanent license, the license has no
                          expiry date.
     paidSubscription(5)   - Paid subscription licenses are the
     licenses
                          which are purchased by customers. These
                          licenses have a start date  and end date
                          associated with them.
     evaluationSubscription(6)-Evaluation subscription licenses are
                            the trial licenses. These licenses
                            are node locked and it can be obtained
```

```
                    only once for an UDI. They are valid
                    based on calendar days. These licenses
                    have a start date and an end date

                associated with them and are issued
                    once per UDI.
    extensionSubscription(7)- Extension subscription licenses are
                    similar to evaluation subscription
                    licenses but these licenses are issued
                    based on customer request. There are
                    no restrictions on the number of
                    licenses available for a UDI.
    evalRightToUse(8)       - Evaluation Right to use (RTU)
    license.
    rightToUse(9)           - Right to use (RTU) license.
    permanentRightToUse(10) ? Right To Use license right after it is configured
                    and is valid for the lifetime of the product.
                    This is a Right To Use license which is not in
                    evaluation mode for a limited time."

  ::=
 { clmgmtLicenseInfoEntry 5 }

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

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

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE
  SYNTAX          Unsigned32
```

```
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS
   current
  DESCRIPTION
     "This object indicates the time period remaining before the
     license expires or transitions to rightToUse(9) license. This
     object is applicable only if clmgmtLicenseType is demo(1), or
     extension(2) or gracePeriod(3) or evalRightToUse(8). The object
     will contain 0 for other license types."
  ::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the elapsed time period since the license
     expired. This object is applicable only if clmgmtLicenseType
     is demo(1), or extension(2) or gracePeriod(3). Also, this
     value of this object will be valid only after the license
     expires. The object will return 0 for other license types
     or before the license expiry."
  ::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount
 OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the maximum number of entities that
     can use this license. This object is applicable only if
     clmgmtLicenseCounted is true(1). The entity that is being
     counted can be anything and it depends on the licensable
     feature."
  ::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the number of entities that can
     still use this license. This object is applicable only
     if clmgmtLicenseCounted is true(1)."
  ::= { clmgmtLicenseInfoEntry 11 }
```

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

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

clmgmtLicenseComments OBJECT-TYPE
  SYNTAX          SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION
     "This object represents the user modifiable comments
     about the license. This object is initially populated
     with comments from the license file."
  ::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE
  SYNTAX          INTEGER  {
                  inactive(1),
                  notInUse(2),
                  inUse(3),
                  expiredInUse(4),
                  expiredNotInUse(5),
                  usageCountConsumed(6)
                }
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object represents status of the license.

      inactive(1)          - license is installed, but
                           not active.
     notInUse(2)           - license is installed and
                           available for use.
     inUse(3)              - the license is being used (by
                           a feature).
     expiredInUse(4)       - license is expired but still
                           being held by the feature.
     expiredNotInUse(5)    - license is expired and not being
                           held by any feature.
```

```
      usageCountConsumed(6) - number of entities using this
                              licenses has reached the allowed
                              limit, no new entities are allowed
                              to use this license."
  ::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE
  SYNTAX          DateAndTime
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object
 indicates the start date for a subscription
      license. It is optional for subscription linceses to have a
      start date associated with them, they may only have an end
      date associated with them. This object may be applicable only
      when clmgmtLicenseType is paidSubscription(5),
      evaluationSubscription(6) or extensionSubscription (7).
      The object will contain an octet string of length 0 when it is
      not applicable."
  ::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE
  SYNTAX          DateAndTime
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the end date for a subscription license.
      This object is applicable only when clmgmtLicenseType is
      paidSubscription(5), evaluationSubscription(6) or
      extensionSubscription (7). The object will contain an octet
      string of length 0 when it is not applicable."
  ::= { clmgmtLicenseInfoEntry
 16 }

clmgmtLicensePeriodUsed OBJECT-TYPE
  SYNTAX          Unsigned32
  UNITS           "seconds"
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
      "This object indicates the time period used for the
      Right to use (RTU) licenses. This object is applicable for all
      RTU licenses."
  ::= { clmgmtLicenseInfoEntry 17 }


-- Licensable features information table.
```

```
clmgmtLicensableFeatureTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicensableFeatureEntry
  MAX-ACCESS     not-accessible
  STATUS        current
  DESCRIPTION
     "This table contains list of licensable features in the
     image. All the licensable features will have an entry each
     in this table irrespective of whether they are using any
     licenses currently. Entries in this table are created by
     the agent one for each licensable feature in the image.
     These entries remain in the table permanently and can not

  be deleted. Management application can not create or delete
     entries from this table."
  ::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicensableFeatureEntry
  MAX-ACCESS     not-accessible
  STATUS        current
  DESCRIPTION
     "An entry in clmgmtLicensableFeatureTable. Each entry represents
     a licensable feature."
  INDEX         {
                  entPhysicalIndex,
                  clmgmtFeatureIndex
               }
  ::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {
     clmgmtFeatureIndex                Unsigned32,
     clmgmtFeatureName                 SnmpAdminString,
     clmgmtFeatureVersion              SnmpAdminString,
     clmgmtFeatureValidityPeriodRemaining Unsigned32,
     clmgmtFeatureWhatIsCounted        SnmpAdminString,
     clmgmtFeatureStartDate            DateAndTime,
     clmgmtFeatureEndDate
             DateAndTime,
     clmgmtFeaturePeriodUsed           Unsigned32
}

clmgmtFeatureIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS     not-accessible
  STATUS        current
  DESCRIPTION
     "This object uniquely identifies a licensable feature in
```

```
      the device."
   ::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE
   SYNTAX         SnmpAdminString (SIZE  (0..128))
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the name of the licensable feature
      in the device. Examples of feature names are: 'IPBASE',
      'ADVIPSERVICE'"
   ::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE
   SYNTAX         SnmpAdminString (SIZE  (0..32))
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the version of the licensable
      feature in the device. Examples
 of feature versions
      are: '1.0' or '2.0'"
   ::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE
   SYNTAX         Unsigned32
   UNITS          "seconds"
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the time period remaining before
      the feature's license expires or transitions. This object is
      applicable only if clmgmtLicenseType of the license used by
      this feature is demo(1), or extension(2) or gracePeriod(3) or
      evalRightToUse(8).

      The object will contain 0 if other types of license is used
      or if the feature does not use any license. If the
      feature is using multiple licenses, this period will
      represent the cumulative period remaining from all the
      licenses used by this feature."
   ::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE
   SYNTAX         SnmpAdminString (SIZE
  (0..128))
   MAX-ACCESS     read-only
   STATUS         current
```

```
  DESCRIPTION
     "This object represents the entity that is being counted
     by this feature. Examples of entities are IP Phones, number
     of sessions etc. This object is only applicable for
     features that use counting licenses. For other features,
     this object will return empty string."
  ::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE
  SYNTAX         DateAndTime
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the license start date of the feature.
     This object is applicable if at least one of the licenses used
     for this feature has a valid start date. The start date will
     be the earliest of the valid start dates of all the licenses
     used for this feature. If none of the licenses used for this
     feature have a valid start date then this object will contain an

    octet string of length 0."
  ::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE
  SYNTAX         DateAndTime
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the license end date of the feature.
     This object is applicable if at least one of the licenses used
     for this feature has a valid end date. The end date will
     be the latest of the valid end dates of all the licenses
     used for this feature. If none of the licenses used for this
     feature have a valid end date then this object will contain an
     octet string of length 0."
  ::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the license period used for the feature."
  ::= { clmgmtLicensableFeatureEntry 8 }
```

```
--
 MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE
  SYNTAX          Unsigned32
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object contains appropriate value for
     clmgmtDevCredExportActionIndex that can be used to create
     an entry in clmgmtDevCredExportActionTable. The management
     application should read this object first and then use this
     as the value for clmgmtDevCredExportActionIndex to avoid
     collisions when creating entries in
     clmgmtDevCredExportActionTable. Following this approach does
     not guarantee collision free row creation, but will reduce
     the probability. The collision will happen if two
     management applications read this object at the same time and
     attempt to create an entry with this value at the same time.
     In this case, the management application whose request is
     processed after the first request
 will get an error and the
     process of reading this object and entry creation needs to be
     repeated."
  ::= { clmgmtLicenseDeviceInformation 1 }
-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF ClmgmtDevCredExportActionEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "A table for triggering device credentials export action.
     Management application must create this entry to trigger the
     export of device credentials from the device to a file.

     Once the request completes, the management application should
     retrieve the values of the objects of interest, and then
     delete the entry.  In order to prevent old entries from
     clogging the table, entries will be aged out, but an entry
     will never be deleted within 5 minutes of completion."
  ::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry
 OBJECT-TYPE
  SYNTAX          ClmgmtDevCredExportActionEntry
  MAX-ACCESS      not-accessible
  STATUS          current
```

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

      1. CREATE-AND-GO method
         Management application sets clmgmtDevCredExportActionStatus
         to createAndGo(4) and all other required objects to valid
         values in a single SNMP SET request. If all the values
         are valid, the device creates the entry and executes the
         action. If the SET request fails, the entry will not be
         created.
      2. CREATE-AND-WAIT method
         Management application sets clmgmtDevCredExportActionStatus to
         createAndWait(5) to create an entry. Management application
          can set all other required objects to valid
         values in more than one SNMP SET request. If SET request
         for any of the objects fails, management application can set
         just only that object. Once all the required objects
         are set to valid values, management application triggers action
         execution by setting clmgmtDevCredExportActionStatus to
         active(1).

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

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

      Entry can be deleted except when clmgmtLicenseAction is set
      to inProgress(3). All entries in this table are volatile
      and are cleared on agent reset."
  INDEX          { clmgmtDevCredExportActionIndex }
  ::= { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry ::= SEQUENCE {
      clmgmtDevCredExportActionIndex Unsigned32,
      clmgmtDevCredEntPhysicalIndex  PhysicalIndexOrZero,
      clmgmtDevCredTransferProtocol  ClmgmtLicenseTransferProtocol,
      clmgmtDevCredServerAddressType InetAddressType,
      clmgmtDevCredServerAddress     InetAddress,
```

```
    clmgmtDevCredServerUsername    SnmpAdminString,
    clmgmtDevCredServerPassword    SnmpAdminString,
    clmgmtDevCredExportFile        SnmpAdminString,
    clmgmtDevCredCommand           INTEGER,
    clmgmtDevCredCommandState      ClmgmtLicenseActionState,
    clmgmtDevCredCommandFailCause  INTEGER,
    clmgmtDevCredStorageType
    StorageType,
    clmgmtDevCredRowStatus         RowStatus
}

clmgmtDevCredExportActionIndex OBJECT-TYPE
  SYNTAX          Unsigned32 (1..4294967295)
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
    "This object uniquely identifies a row in
    clmgmtDevCredExportActionTable. The management application
    chooses this value by reading
    clmgmtNextFreeDevCredExportActionIndex while creating an
    entry in this table. If an entry already exists with this
    index, the creation of the entry will not continue and
    error will be returned. The management application should
    read the value of clmgmtNextFreeDevCredExportActionIndex
    again and retry with the new value for this object."
  ::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE
  SYNTAX          PhysicalIndexOrZero
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object represents the entPhysicalIndex of the device
    for which the device credentials are being retrieved. This
    object is mainly used in devices where one device is acting
    as a master and rest of the devices as slaves. The master
    device is responsible for SNMP communication with the
    manager. Examples include stackable switches, devices with
    router processor and line cards.

    Note: This object need not be set if it is a stand alone
    device"
  DEFVAL          { 0 }
  ::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE
  SYNTAX          ClmgmtLicenseTransferProtocol
  MAX-ACCESS      read-create
```

```
  STATUS        current
  DESCRIPTION
     "This object indicates the transfer protocol to be used when
     copying files as specified in the following objects.
     1. clmgmtDevCredExportFile
     ."
  DEFVAL        { none }
  ::= { clmgmtDevCredExportActionEntry
 3 }

clmgmtDevCredServerAddressType OBJECT-TYPE
  SYNTAX        InetAddressType
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the transport type of the
     address contained in clmgmtDevCredServerAddress object.
     This must be set when clmgmtDevCredTransferProtocol
     is not none(1) or local(2)."
  DEFVAL        { unknown }
  ::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE
  SYNTAX        InetAddress
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the the ip address of the server
     from which the files must be read or written to if
     clmgmtDevCredTransferProtocol is not none(1) or local(2).

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

     The format of this address depends on the value of the
     clmgmtDevCredServerAddressType
 object"
  DEFVAL        { "" }
  ::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the remote user name for accessing
     files via ftp, rcp, sftp or scp protocols. This object
     must be set when the clmgmtDevCredTransferProtocol is
```

```
      ftp(4), rcp(5), scp(7) or sftp(8). If
      clmgmtDevCredTransferProtocol is rcp(5), the remote
      username is sent as the server username in an rcp command
      request sent by the system to a remote rcp server."
   DEFVAL         { "" }
   ::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE
   SYNTAX         SnmpAdminString (SIZE  (0..96))
   MAX-ACCESS     read-create
   STATUS         current
   DESCRIPTION
      "This object indicates the password used by ftp, sftp or
      scp for copying
 a file to/from an ftp/sftp/scp server.
      This object must be set when the
      clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
      sftp(8). Reading it returns a zero-length string for
      security reasons."
   DEFVAL         { "" }
   ::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE
   SYNTAX         SnmpAdminString (SIZE  (0..255))
   MAX-ACCESS     read-create
   STATUS         current
   DESCRIPTION
      "This object represents file where device credentials needs
      to be exported to."
   ::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE
   SYNTAX         INTEGER  {
                     noOp(1),
                     getDeviceCredentials(2)
                  }
   MAX-ACCESS     read-create
   STATUS         current
   DESCRIPTION
      "This object indicates the the command to be executed.

      Command                        Remarks
      -------
            -------
      noOp(1)                        No operation will be
                                  performed.

      getDeviceCredentials(2)        Exports device credentials"
```

```
  DEFVAL        { noOp }
  ::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE
  SYNTAX        ClmgmtLicenseActionState
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the state of the action that is
     executed as a result of setting clmgmtDevCredRowStatus
     to active(1)."
  ::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE
  SYNTAX        INTEGER  {
                 none(1),
                 unknownError(2),
                 transferProtocolNotSupported(3),
                 fileServerNotReachable(4),
                 unrecognizedEntPhysicalIndex(5),
                 invalidFile(6)

    }
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the the reason for device
     credentials export operation failure.

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

     none(1)        - action execution has not started yet.
                    If the action is completed and the
                    action is successful, then also
                    none(1) is returned to indicate that
                    there are no errors.
     unknownError(2) - reason for failure is unknown,
                    operation failed, no operation is
                    performed
     transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
                              given is not supported.
     fileServerNotReachable(4)       - file server is not reachable.
     unrecognizedEntPhysicalIndex(5) - entPhysicalIndex
 is not
                              valid
     invalidFile(6)  - The target file specified is not valid."
  ::= { clmgmtDevCredExportActionEntry 11 }
```

```
clmgmtDevCredStorageType OBJECT-TYPE
  SYNTAX          StorageType
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object indicates the storage type for this conceptual
     row. Conceptual rows having the value 'permanent' need not
     allow write-access to any columnar objects in the row."
  DEFVAL          { volatile }
  ::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE
  SYNTAX          RowStatus
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
     "This object indicates the the status of this table entry.
     Once the entry status is set to active(1), the associated
     entry cannot be modified until the action completes
     (clmgmtDevCredCommandStatus is set to a value
     other than
 inProgress(3)). Once the action completes
     the only operation possible after this is to delete
     the row.

     clmgmtDevCredExportFile is a mandatory object to be
     set when creating this entry."
  ::= { clmgmtDevCredExportActionEntry 13 }



-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE
  SYNTAX          TruthValue
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION
     "This object indicates whether the device should generate
     the notifications related to usage of licenses. This object
     enables/disables sending following notifications:
        clmgmtLicenseExpired
        clmgmtLicenseExpiryWarning
        clmgmtLicenseUsageCountExceeded
        clmgmtLicenseUsageCountAboutToExceed
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
```

```
        clmgmtLicenseSubscriptionExpired
        clmgmtLicenseEvalRTUTransitionWarning
         clmgmtLicenseEvalRTUTransition"
  DEFVAL        { true }
  ::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS     read-write
  STATUS        current
  DESCRIPTION
     "This object indicates whether the device should generate
     notifications related to license deployment. This object
     enables/disables sending following notifications:
        clmgmtLicenseInstalled
        clmgmtLicenseCleared
        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted"
  DEFVAL        { true }
  ::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS     read-write
  STATUS        current
  DESCRIPTION
     "This object indicates whether the device should generate
     notifications related to error conditions in enforcing
     licensing. This object
 enables/disables sending following
     notifications:
        clmgmtLicenseNotEnforced"
  DEFVAL        { true }
  ::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
  OBJECTS       {
                clmgmtFeatureName,
                clmgmtFeatureVersion
             }
  STATUS        current
  DESCRIPTION
     "This notification is sent, when a feature license
     expires. This notification will be sent continuously
     every week even after the expiry to alert the management
     application."
```

```
  ::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion,
                   clmgmtFeatureValidityPeriodRemaining
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent when a license is about to

     expire. This notification will go out multiple times.
      First notification goes out when expiry day is 4 weeks
      ahead, second notification when expiry day is 3 weeks
      ahead, third notification when expiry day is 2 weeks
      ahead. This notification will go out daily in the
      last week of license expiry."
  ::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtLicenseFeatureName,
                   clmgmtLicenseFeatureVersion,
                   clmgmtLicenseMaxUsageCount,
                   clmgmtFeatureWhatIsCounted,
                   clmgmtLicenseComments
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent when clmgmtLicenseUsageCountRemaining
      has reached clmgmtLicenseMaxUsageCount for a counting license."
  ::= { ciscoLicenseMgmtMIBNotifs 3 }

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE
   OBJECTS        {
                   clmgmtLicenseFeatureName,
                   clmgmtLicenseFeatureVersion,
                   clmgmtLicenseMaxUsageCount,
                   clmgmtLicenseUsageCountRemaining,
                   clmgmtFeatureWhatIsCounted,
                   clmgmtLicenseComments
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent when clmgmtLicenseUsageCountRemaining
      has reached 80% of clmgmtLicenseMaxUsageCount for a counting
      license. This is a warning notification to the management
```

```
      application that very soon the maximum count will be reached
      and after that the device will not allow new entities to
      make use of this license."
  ::= { ciscoLicenseMgmtMIBNotifs 4 }

clmgmtLicenseInstalled NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtLicenseFeatureName,
                   clmgmtLicenseFeatureVersion,

                 clmgmtLicenseType,
                   clmgmtLicenseComments
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent when a license is installed
      successfully."
  ::= { ciscoLicenseMgmtMIBNotifs 5 }

clmgmtLicenseCleared NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtLicenseFeatureName,
                   clmgmtLicenseFeatureVersion,
                   clmgmtLicenseType,
                   clmgmtLicenseComments
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent when a license is cleared
      successfully."
  ::= { ciscoLicenseMgmtMIBNotifs 6 }

clmgmtLicenseRevoked NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtLicenseFeatureName,
                   clmgmtLicenseFeatureVersion,
                   clmgmtLicenseType,
                   clmgmtLicenseComments
                 }
  STATUS
        current
  DESCRIPTION
      "This notification is sent when a license is revoked
      successfully."
  ::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE
  OBJECTS        {
```

```
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
  STATUS        current
  DESCRIPTION
      "This notification is sent when a user accepts End User
      License Agreement (EULA) for a license."
 ::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE
  OBJECTS       {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
  STATUS        current
  DESCRIPTION
      "This notification is sent when a license does not
      exist for a feature, but the feature is a mandatory
      feature and it should run. This notification will be
      sent out periodically to indicate that there is no

 license installed for this feature and it needs to
      be done as soon as possible."
 ::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE
  OBJECTS       {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
  STATUS        current
  DESCRIPTION
      "This notification is sent when a subscription license of a
      feature is about to expire. This notification will be sent as
      per the following schedule:
      Once a week for the last eight weeks
      Once a day for the last week
      Once a hour for the last day"
 ::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE
  OBJECTS       {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
  STATUS
```

```
  current
  DESCRIPTION
      "This notification is sent when the subscription license end
      date of a feature is reached but extension period is left. This
      notification will be sent once a day after the license end date
      is reached."
  ::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion,
                   clmgmtFeatureEndDate
                 }
  STATUS         current
  DESCRIPTION
      "This notification will be sent after a subscription license
      of a feature completely expires. It will be sent once a day
      after the license has completely expired"
  ::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion,
                   clmgmtFeatureValidityPeriodRemaining
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent when Evaluation to Right to use (RTU)
      license transition is about to happen. The first notification
      will be sent 10 days before the transition and second
      notification will be sent 5 days before the transition."
  ::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion
                 }
  STATUS         current
  DESCRIPTION
      "This notification is sent, when a feature license transitions
      from a evaluation to a Right to use (RTU) license."
  ::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

ciscoLicenseMgmtCompliances  OBJECT IDENTIFIER
```

```
  ::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBConform 2 }


ciscoLicenseMgmtCompliance
 MODULE-COMPLIANCE
  STATUS        deprecated
  DESCRIPTION
     "Compliance statement for Cisco license mgmt MIB."
  MODULE        -- this module
  MANDATORY-GROUPS {
                clmgmtLicenseDeploymentGroup,
                clmgmtLicenseDeviceInformationGroup,
                clmgmtLicenseInformationGroup,
                clmgmtLicensableFeatureInformationGroup,
                clmgmtLicenseDevCredGroup,
                clmgmtLicenseNotificationEnableGroup,
                clmgmtLicenseUsageNotifGroup,
                clmgmtLicenseDeploymentNotifGroup,
                clmgmtLicenseErrorNotifGroup
             }

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

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
   STATUS        current
  DESCRIPTION
     "Compliance statement for Cisco license mgmt MIB."
  MODULE        -- this module
  MANDATORY-GROUPS {
                clmgmtLicenseDeploymentGroup,
                clmgmtLicenseDeviceInformationGroup,
                clmgmtLicenseInformationGroup,
                clmgmtLicensableFeatureInformationGroup,
                clmgmtLicenseDevCredGroup,
                clmgmtLicenseNotificationEnableGroup,
                clmgmtLicenseUsageNotifGroup,
                clmgmtLicenseDeploymentNotifGroup,
                clmgmtLicenseErrorNotifGroup
             }

  GROUP         clmgmtLicenseStoreInformationGroup
```

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

  GROUP          clmgmtLicenseSubscriptionGroup
  DESCRIPTION
     "This object group is mandatory for all devices
 that
     support subscription licensing."

  GROUP          clmgmtLicenseSubscriptionUsageNotifGroup
  DESCRIPTION
     "This notification group is mandatory for all devices that
     support subscription licensing."

  GROUP          clmgmtLicenseRTUGroup
  DESCRIPTION
     "This object group is mandatory for all devices that
     support Right to Use (RTU) licensing."

  GROUP          clmgmtLicenseRTUUsageNotifGroup
  DESCRIPTION
     "This notification group is mandatory for all devices that
     support Right to use (RTU) licensing."
  ::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
  OBJECTS        {
                 clmgmtNextFreeLicenseActionIndex,
                 clmgmtLicenseActionEntPhysicalIndex,
                 clmgmtLicenseActionTransferProtocol,
                 clmgmtLicenseServerAddressType,
                 clmgmtLicenseServerAddress,
                  clmgmtLicenseServerUsername,
                 clmgmtLicenseServerPassword,
                 clmgmtLicenseFile,
                 clmgmtLicenseStore,
                 clmgmtLicenseActionLicenseIndex,
                 clmgmtLicensePermissionTicketFile,
                 clmgmtLicenseRehostTicketFile,
                 clmgmtLicenseBackupFile,
                 clmgmtLicenseStopOnFailure,
                 clmgmtLicenseAction,
                 clmgmtLicenseActionState,
                 clmgmtLicenseJobQPosition,
                 clmgmtLicenseActionFailCause,
```

```
                clmgmtLicenseActionStorageType,
                clmgmtLicenseActionRowStatus,
                clmgmtLicenseIndivActionState,
                clmgmtLicenseIndivActionFailCause,
                clmgmtLicenseAcceptEULA,
                clmgmtLicenseEULAFile

    }
  STATUS        current
  DESCRIPTION
    "A collection of objects for performing license deployment
    i.e., license installation, clear and revoke"
  ::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtLicenseStoreName,
                clmgmtLicenseStoreTotalSize,
                clmgmtLicenseStoreSizeRemaining
              }
  STATUS        current
  DESCRIPTION
    "A collection of objects that provide information about
    license storages in the device."
  ::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
  OBJECTS       { clmgmtDefaultLicenseStore }
  STATUS        current
  DESCRIPTION
    "A collection of objects that provide information about
    device level licensing support information in the device."
  ::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP
   OBJECTS      {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseType,
                clmgmtLicenseCounted,
                clmgmtLicenseValidityPeriod,
                clmgmtLicenseValidityPeriodRemaining,
                clmgmtLicenseExpiredPeriod,
                clmgmtLicenseMaxUsageCount,
                clmgmtLicenseUsageCountRemaining,
                clmgmtLicenseEULAStatus,
                clmgmtLicenseComments,
                clmgmtLicenseStatus
```

```
            }
  STATUS        current
  DESCRIPTION
     "A collection of objects that provide information about
     licenses and its state."
  ::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtFeatureName,
                clmgmtFeatureVersion,

                clmgmtFeatureValidityPeriodRemaining,
                clmgmtFeatureWhatIsCounted
            }
  STATUS        current
  DESCRIPTION
     "A collection of objects that provide information about
     licensable features in the software image."
  ::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtNextFreeDevCredExportActionIndex,
                clmgmtDevCredEntPhysicalIndex,
                clmgmtDevCredTransferProtocol,
                clmgmtDevCredServerAddressType,
                clmgmtDevCredServerAddress,
                clmgmtDevCredServerUsername,
                clmgmtDevCredServerPassword,
                clmgmtDevCredExportFile,
                clmgmtDevCredCommand,
                clmgmtDevCredCommandState,
                clmgmtDevCredCommandFailCause,

    clmgmtDevCredStorageType,
                clmgmtDevCredRowStatus
            }
  STATUS        current
  DESCRIPTION
     "A collection of objects for exporting device credentials
     from the device."
  ::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtLicenseUsageNotifEnable,
                clmgmtLicenseDeploymentNotifEnable,
```

```
                clmgmtLicenseErrorNotifEnable
            }
  STATUS        current
  DESCRIPTION
     "A collection of objects for controlling
     (enabling/disabling) license notifications to a management
     application."
  ::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                clmgmtLicenseExpired,
                clmgmtLicenseExpiryWarning,
                clmgmtLicenseUsageCountExceeded,

     clmgmtLicenseUsageCountAboutToExceed
            }
  STATUS        current
  DESCRIPTION
     "A collection of notifications related to license usage."
  ::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                clmgmtLicenseInstalled,
                clmgmtLicenseCleared,
                clmgmtLicenseRevoked,
                clmgmtLicenseEULAAccepted
            }
  STATUS        current
  DESCRIPTION
     "A collection of notifications related to license deployment."
  ::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    { clmgmtLicenseNotEnforced }
  STATUS        current
  DESCRIPTION
     "A collection of notifications related to license errors."
  ::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
  OBJECTS        {
                clmgmtLicenseStartDate,
                 clmgmtLicenseEndDate,
                clmgmtFeatureStartDate,
                clmgmtFeatureEndDate
            }
```

```
  STATUS        current
  DESCRIPTION
     "A collection of objects that provide information specific to
     subscription licenses."
  ::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                  clmgmtLicenseSubscriptionExpiryWarning,
                  clmgmtLicenseSubscriptionExtExpiryWarning,
                  clmgmtLicenseSubscriptionExpired
               }
  STATUS        current
  DESCRIPTION
     "A collection of notifications related to usage of subscription
     licenses."
  ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
  OBJECTS        {
                  clmgmtLicensePeriodUsed,
                  clmgmtFeaturePeriodUsed

 }
  STATUS        current
  DESCRIPTION
     "A collection of objects that provide information specific to
     Right to use (RTU) licenses."
  ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                  clmgmtLicenseEvalRTUTransitionWarning,
                  clmgmtLicenseEvalRTUTransition
               }
  STATUS        current
  DESCRIPTION
     "A collection of notifications related to Right to use (RTU)
     licenses."
  ::= { ciscoLicenseMgmtGroups 14 }

END


--%DNP%  MLC -Edit MLC

--%DNP%  MTF -TRUE MTF
```

1.264 robot-infra-utils 1.0.2-0.20210928040209-3fc74df7c65c

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Version 2.1, February 1999

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```
package ssh
import (
   dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
       dao.Dao
 Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
       e.Conn_.GET(e)
       return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
       e.Development_mode = v
}
```

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1.265 sqlx 0.0.0-20190426154859-38398a30ed85

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1.266 x-net 0.0.0-20210510120150-4163338589ed

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1.267 globalsign-mgo 0.0.0-20181015135952-eeefdecb41b8

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mgo - MongoDB driver for Go

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1.268 blang-semver 0.0.0-20190414102917-ba2c2ddd8906

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1.269 influxdb 1.9.4

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1.270 x-net 0.0.0-20210503060351-7fd8e65b6420

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1.271 klauspost-compress 1.13.4

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1.272 golang-snappy 0.0.3

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1.273 mgo 0.0.0-20181015135952-eeefdecb41b8

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mgo - MongoDB driver for Go

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1.274 urllib3 1.26.6-1.ph1

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1.275 golang 1.16.5

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1.278 robot-robot-api 0.0.0-20211021002214-c8d6cb345f54

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```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"
import _ "google.golang.org/genproto/googleapis/api/annotations"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicenseDevice struct {
 DeviceSerialNumber   string   `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache
```

```
	int32	`json:"-"`
}

func (m *ZtpLicenseDevice) Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_e27237926d594488, []int{0}
}
func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(dst, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice
 proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
 if m != nil {
  return m.DeviceSerialNumber
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_cw_ztp_license_device_e27237926d594488)
}

var fileDescriptor_cw_ztp_license_device_e27237926d594488 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
```

```
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13,
 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42, 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"
import _ "google.golang.org/genproto/googleapis/api/annotations"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicense struct {
 Id                  int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
 Status              string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
 LastUpdated
  int64    `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_f6745968de738545, []int{0}
```

```
}
func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (dst *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(dst, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var
 xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {
 if m != nil {
  return m.Id
 }
 return 0
}

func (m *ZtpLicense) GetStatus() string {
 if m != nil {
  return m.Status
 }
 return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
 if m != nil {
  return m.LastUpdated
 }
 return 0
}

func init() {
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_cw_ztp_license_f6745968de738545)
}
```

```
var fileDescriptor_cw_ztp_license_f6745968de738545 = []byte{
 // 222 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
 0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
 0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7,
 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
 0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48, 0x58, 0x5f, 0xc2, 0xfe,
 0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
 0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
 0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
 0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
 0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
 0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
 0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
 0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
 0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01,
 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
 Uuid                 string   `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
 SerialNumber         []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
 LocationId           string   `protobuf:"bytes,3,opt,name=locationId,proto3"
 json:"locationId,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
```

```
}

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399, []int{0}
}
func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(dst, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func
 (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
 if m != nil {
  return m.Uuid
 }
 return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
 if m != nil {
  return m.SerialNumber
 }
 return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
 if m != nil {
  return m.LocationId
 }
 return ""
}
```

```
func init() {
 proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto",
fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399)
}

var fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399 = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7,
 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65, 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
 0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
 0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
 0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
 0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
 0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
 0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb,
 0x77, 0x91, 0x55, 0x0f,
 0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
 0x00, 0xff, 0xff, 0x66, 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
```

1.279 robot-infra-utils 1.0.2-0.20211021054301-32fffd1994e3

1.279.1 Available under license :

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Version 2.1, February 1999

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

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

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

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

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

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```
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)
type Smart_license struct {
      dao.Dao
 Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
      e.Conn_.GET(e)
      return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
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```

}
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1.285 cron 3.0.1

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* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/do_command.c
*
 /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/job.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/user.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/config.h
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/cron.h
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/crontab.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/entry.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/cron.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/database.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/env.c
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/misc.c
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

Found in path(s):
*
 /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/cron.8
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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/
```

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* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/bitstring.h
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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

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*
 /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/crontab.5

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

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

stuff'.

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

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

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by
Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

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

say:
make all

su and say:
make install

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

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

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

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

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/INSTALL
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* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/pathnames.h

*
/opt/cola/permits/1227026255_1636658538.11/0/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 $
.\"

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*
/opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/crontab.1
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.\"
.\" @(#)bitstring.3 5.1
(Berkeley) 12/13/89
.\"

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*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

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

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

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

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

```
 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.
```

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

Found in path(s):
* /opt/cola/permits/1227026255_1636658538.11/0/vixie-cron-3-0-1-tar-bz2/vixie-cron-3.0.1/README

1.286 github.com/openzipkin/zipkin-go-opentracing 0.0.0-20171026175212-577d7d7eb166

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1.287 gopkg.in/urfave/cli.v1 1.19.1

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

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1.289 shadow-utils 4.8.1-r0

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1.291 gopkg.in/jcmturner/aescts.v1 1.0.1

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1.292 dnsutils 1.0.1

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1.294 rpc 1.1.0

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1.295 go-zookeeper 0.0.0-20180130194729-c4fab1ac1bec

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1.296 github.com/getlantern/deepcopy 0.0.0-20160317154340-7f45deb8130a

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1.297 gorm.io/driver/postgres 1.0.8

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1.298 github.com/nats-io/go-nats 1.7.2

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1.300 nwaples-rardecode 1.0.0

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1.301 x-net 0.0.0-20200813134508-3edf25e44fcc

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1.302 logfmt 0.4.0

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1.303 goprotobuf 1.4.2

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

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1.305 logfmt 0.5.0

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1.306 go-resiliency 1.2.0

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1.307 google-uuid 1.1.1

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1.308 fsnotify 1.4.7

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1.309 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.310 lz4 3.2.1

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1.317 procfs 0.0.3

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1.318 pgx 4.10.1

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1.320 xpath 1.1.10

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1.321 github.com/carlescere/scheduler 0.0.0-20170109141437-ee74d2f83d82

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1.322 gopkg.in/karalabe/cookiejar.v1 1.0.0-20141109175019-e1490cae028c

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1.324 sampler 1.3.0

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

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1.326 github.com/neo4j/neo4j-go-driver/v4 4.2.3

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1.327 logrus 1.4.2

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1.330 protobuf 1.27.1

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1.336 spew 1.1.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

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

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

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

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.. toctree::
:hidden:

copyright.rst

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1.347 pierrec-lz4 2.4.1+incompatible

1.347.1 Available under license :

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1.348 goprotobuf 1.5.2

1.348.1 Available under license :

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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Walter Schulze <awalterschulze@gmail.com>

1.349 go-zookeeper 0.0.0-20190923202752-2cc03de413da

1.349.1 Available under license :

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