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1.312 prometheus-client 0.2.0
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1.314 crosswork-robot-api 4.5.0.5
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1.1 golang-protobuf-extensions 1.0.1

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1.2 libffi 3.0.13

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1.3 python-certifi 2019.11.28

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

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

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

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

1.4 distlib 0.3.0

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A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes

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

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- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
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- Godefroid Chapelle
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1.7 etree 1.1.0

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

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1.9 go-kit 0.10.0

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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
lib/csharp/src/Protocol/TMap.cs
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lib/csharp/src/Server/TSimpleServer.cs
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lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
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lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
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lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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

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L. Peter Deutsch
ghost@aladdin.com

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Tue Oct 24 12:28:44 CDT 2006

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1.16 go-md2man 2.0.0

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1.17 sqlite 3.41.0

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1.18 golang-snappy 0.0.2

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1.19 libyaml 0.2.5

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1.20 python3-asn1crypto 0.24.0

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1.21 idna 2.8

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* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
No license file was found, but licenses were detected in source scan.

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

```
import io, sys
from setuptools import setup


def main():

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

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

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

  setup(**arguments)

if __name__ == '__main__':
  main()

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* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py
```

1.22 appdirs 1.4.3

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1.23 pyparsing 2.4.6

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1.24 toml 0.10.0

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1.25 packaging 19.2

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1.26 nose 1.3.7

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1.32 grpc-go 1.36.0

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1.33 aws-sdk-go 1.37.20

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1.34 gax-go 2.0.5

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1.38 kafka-python 1.4.5

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1.39 stack 1.8.0

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1.40 cachecontrol 0.12.6

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1.41 contextlib2 0.6.0

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

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2.5.3	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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https://github.com/madler/zlib
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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

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

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Bit Twiddling Hacks

By Sean Eron Anderson
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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 </PropertyGroup>
 <ItemGroup>
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  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
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 <ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
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https://www.simple-talk.com/dotnet/.net-framework/the-dangers-of-the-large-object-heap/

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1.46 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

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

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Introduction
============

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

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

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

lex and yacc from the associated 'ply' package. For example:

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

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

```
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

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

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

```
http://www.dabeaz.com/ply
```

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

The GitHub page for PLY can be found at:

```
https://github.com/dabeaz/ply
```

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

```
http://groups.google.com/group/ply-hack
```

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

The CHANGES file acknowledges those who have contributed patches.

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

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

Example
=======

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

```
  # -----------------------------------------------------------------------------
  # calc.py
  #
  # A simple calculator with variables.
  # -----------------------------------------------------------------------------

  tokens = (
     'NAME','NUMBER',
     'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
     'LPAREN','RPAREN',
     )

  # Tokens

  t_PLUS    = r'\+'
  t_MINUS   = r'-'
  t_TIMES   = r'\*'
  t_DIVIDE  = r'/'
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
```

```
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

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

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

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

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

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

```
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

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

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

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

  def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

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

  import ply.yacc as yacc
  yacc.yacc()

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

Bug Reports and Patches
==========

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send

email to dave@dabeaz.com.

-- Dave

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1.47 ansible 2.10.0

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Tue, 17 Apr 2012 12:19:47 -0400.

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

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bugfixes:
- "Prevent templating unused variables for {% include %} (https://github.com/ansible/ansible/issues/68699)"
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1.51 importlib-metadata 4.8.1

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1.52 typing-extensions 3.10.0.2

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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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because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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1.53 iotop 0.6-24-g733f3f8-1

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1.55 ansible-base 2.10.14

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

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1.74 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.78 hashicorp-go-plugin 1.4.0

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1.87 json-iterator-go 1.1.11

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1.92 gogo-googleapis 1.4.0

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

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1.94 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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1.95 json-iterator-go 1.1.10

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1.96 prometheus-procfs 0.2.0

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metrics from the pseudo-filesystem proc.

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1.113 jaeger-lib 2.4.0+incompatible

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1.114 jaeger-client-go 2.25.0+incompatible

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1.115 goleak 1.1.10

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1.117 errors 0.9.1

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1.120 xorm.io-core 0.7.3

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1.122 xorm.io-builder 0.3.6

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1.123 gopkg-in/mail 2.3.1

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1.124 facebookgo-structtag 0.0.0-20150214074306-217e25fb9691

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1.125 com 1.0.1

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1.126 vividcortex-mysqlerr 0.0.0-20170204212430-6c6b55f8796f

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

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1.128 go-macaron-inject 0.0.0-20160627170012-d8a0b8677191

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1.129 cheekybits-genny 1.0.0

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1.130 shortid 0.0.0-20171029131806-771a37caa5cf

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1.131 inject 0.0.0-20180706035515-f23751cae28b

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1.132 go-datemath 0.1.1-0.20200323150745-74ddef604fff

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

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1.135 uap-go 0.0.0-20190826212731-daf92ba38329

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1.136 gopkg-in/ldap 3.0.2

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1.137 benbjohnson-clock 0.0.0-20161215174838-7dc76406b6d3

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1.138 go-immutable-radix 1.3.1

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1.140 robot-telemetry_proto 0.0.0-20210520062046-a73bb180cba4

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

module CISCO-IMAGE-LICENSE-MGMT-MIB {

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

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

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

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

 organization
  "Cisco Systems Inc.";

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

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

The image level licensing mechanism works as follows -

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

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

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

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

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

```
  licensing functionality.

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

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

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

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

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

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

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

    If the license required to run a device at
```

```
    advipservices image level is advipservices and
    advsecurity, then the license name list will be
    'advipservices,advsecurity'.";
  }


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

   container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

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

   container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

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

```
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
    }
  }

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

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

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

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

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

```
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
       }

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

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

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

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

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

          Note: The license store index can be '0' if no license is
```

```
    installed and device is running base image.";
  smiv2:max-access "read-only";

  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}

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

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

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

CISCO-LICENSE-MGMT-MIB.

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

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

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

```
    }
   }
  }

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

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

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

    leaf cilmModuleName {
     type leafref {

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

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

```
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
   }

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

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

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

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

```
 }

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

  container object-1 {

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

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

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

  container object-2 {

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

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

```
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
       }
     }

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

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

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

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

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

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

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

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

}
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```

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#
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--
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--
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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

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

```
  DisplayString
     FROM SNMPv2-TC;

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

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

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

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

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

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

JnxLicenseInstallEntry  ::=  SEQUENCE {
  jnxLicenseId             DisplayString,
```

```
  jnxLicenseVersion        INTEGER,
  jnxLicenseDeviceId       DisplayString,
  jnxLicenseType           INTEGER,
  jnxLicenseKeys           OCTET STRING
  }

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

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

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

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

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

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF JnxLicenseFeatureListEntry
  MAX-ACCESS     not-accessible
  STATUS         current
```

```
  DESCRIPTION     "list of features supporting Licensing."
  ::=  { jnxLicenseInstallObjects  2 }

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

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

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

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

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

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

```
  DESCRIPTION           "Feature License Id"
  ::= {  jnxLicenseFeatureListEntry 4  }

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

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

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


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

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

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

jnxLicenseAutoUpdate    OBJECT-TYPE
  SYNTAX             DisplayString
```

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



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

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

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

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

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

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

jnxLicenseInfringeSingle NOTIFICATION-TYPE
```

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


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

module CISCO-LICENSE-MGMT-MIB {

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

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

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

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

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

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

 organization
```

"Cisco Systems Inc.";

contact
"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

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

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

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

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

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

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

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

clock, but system clock.

EULA:
End User License Agreement.

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

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

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

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

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

PERMANENT LICENSE:
Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses

need to be installed using management interfaces on
the device. Once these licenses are installed, they
will provide needed permission for the feature/image
across different versions.

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

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

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

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

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

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

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

LICENSE FILE:

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

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

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

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

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

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

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

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

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

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management

application can generate and export EULA for one or
more licenses with out installing licenses as follows.
1. Specifies the license file path that has licenses to be
installed
2. Specifies the EULA file path where EULA need to be
exported to
3. Executes the generate EULA action.

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

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

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

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

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

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

The new module compliance is ciscoLicenseMgmtComplianceRev1.";

```
}

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

    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

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

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

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

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

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

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

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

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

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

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

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

    successful(4)        - action has completed successfully.

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

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

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

```
    }
    enum "invalidLicenseLine" {
      value "8";
    }
    enum "licenseAlreadyExists" {
      value "9";
    }
    enum "licenseNotValidForDevice" {
      value "10";
    }
    enum "invalidLicenseCount" {
      value "11";
    }
    enum "invalidLicensePeriod" {
      value "12";
    }
    enum "licenseInUse" {
      value "13";
    }
    enum "invalidLicenseStore" {
      value "14";
    }
    enum "licenseStorageFull" {
      value "15";
    }
    enum "invalidPermissionTicketFile" {
      value "16";
    }
    enum "invalidPermissionTicket" {
      value "17";
    }
    enum "invalidRehostTicketFile" {
      value "18";
    }
    enum "invalidRehostTicket"
  {
      value "19";
    }
    enum "invalidLicenseBackupFile" {
      value "20";
    }
    enum "licenseClearInProgress" {
      value "21";
    }
    enum "invalidLicenseEULAFile" {
      value "22";
    }
   }
```

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

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

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

```
    invalidRehostTicket(19)     - The rehost ticket file contents

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


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

  container clmgmtLicenseConfiguration {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";


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

```
  }
 }

 container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

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

 container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

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

```
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
 }

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

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

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

   Refer to the description of clmgmtLicenseAction for more
```

```
      information on what these actions do on the device.
      Once the request completes, the management
application should
      retrieve the values of the objects of interest, and then
      delete the entry.  In order to prevent old entries from
      clogging the table, entries will be aged out, but an entry
      will never be deleted within 5 minutes of completion.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

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

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

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

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

Once the action completes and status of the action is failed(6), the reason for failure can be retrieved from clmgmtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgmtLicenseActionResultTable.

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

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

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

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

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

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

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

license

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

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

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

5. Save all licenses to a backup storage

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

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

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

The following MIB objects need to be set exporting required EULAs

a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword

```
            f. clmgmtLicenseFile
            g. clmgmtLicenseEULAFile
            h. clmgmtLicenseAction

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

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

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

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

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

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

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

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

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

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

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

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

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

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

      leaf clmgmtLicenseFile {
        type snmp-framework:SnmpAdminString {
          length "0..255";
        }
        description
          "This object represents the location of the license file
          on the server identified by clmgmtLicenseServerAddress. This
          object MUST be set to a valid value before or concurrently
```

```
          with setting the value of the clmgmtLicenseAction object to
          install(2). For other operations, the value of this
          object is not considered, it is irrelevant.";
        smiv2:defval "";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
      }

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

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

      leaf clmgmtLicensePermissionTicketFile {
        type snmp-framework:SnmpAdminString {
          length "0..255";
        }
        description
         "This object indicates the file name of the permission
          ticket. This object need to be set only if
          clmgmtLicenseAction is set to processPermissionTicket(4)
```

```
        or regenerateLastRehostTicket(5) actions. The permission
        ticket is obtained from Cisco licensing portal to revoke
        a license. The management application must set this object
        to valid value before invoking the action.";
      smiv2:defval "";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
    }


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

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

    leaf clmgmtLicenseStopOnFailure {
      type boolean;
      description
       "This object indicates whether the license action should
```

```
      stop if the action on a license fails. This object is
      applicable only if there are more than one licenses
      involved in an action.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
   }

   leaf clmgmtLicenseAction {
    type enumeration {
     enum "noOp" {

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

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

      install(2)                Installs the license.

      clear(3)                  Clears the license.

      processPermissionTicket(4)
 Processes thee permission
                                ticket and generates and
```

exports rehost ticket.

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

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

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

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

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

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

leaf clmgmtLicenseActionFailCause {

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

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

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

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

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

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

```
      Management application should set this object to true(1) when
      installing licenses that need EULA acceptance.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
   }

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

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

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

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

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

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

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

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

```
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";

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

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

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

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

      leaf clmgmtLicenseStoreTotalSize {
        type uint32;
        units "bytes";
        description
         "This object indicates the total number of bytes that are
```

```
          allocated to the license store.";
        smiv2:max-access "read-only";
        smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
      }

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

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

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

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

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

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

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

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

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

      leaf clmgmtLicenseStoreUsed {
       type uint32 {
        range "1..4294967295";
       }
       description
        "This object represents the license store that is used for
         storing this license. This object will have the same value
         as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
         of the license store used.";
```

```
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";
    }

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

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

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

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

```
        enum "gracePeriod" {
          value "3";
        }
        enum "permanent" {
          value "4";
        }
        enum "paidSubscription" {
          value "5";
        }
        enum "evaluationSubscription" {
          value "6";
        }
        enum "extensionSubscription" {
          value "7";
        }
        enum "evalRightToUse" {
          value "8";
        }
        enum "rightToUse" {
          value "9";
        }
        enum "permanentRightToUse" {
          value "10";
        }
      }
      description
       "This object identifies type of license. Licenses may have
        validity period defined in terms of time duration that the
        license is valid for or it may be defined in terms of actual
        calendar dates. Subscription licenses are licenses that have
        validity period
defined in terms of calendar dates.

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

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

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

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

    leaf clmgmtLicenseValidityPeriodRemaining {
      type uint32;
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

      leaf clmgmtFeatureIndex {
        type uint32 {
          range "1..4294967295";
        }
        description
         "This object uniquely identifies a licensable feature in
          the device.";
```

```
        smiv2:max-access "not-accessible";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
       }

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

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

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

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

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

      leaf clmgmtFeatureStartDate {

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

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

      leaf clmgmtFeaturePeriodUsed {
        type uint32;
        units "seconds";
```

```
        description
         "This object indicates the license period used for the feature.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
       }
     }
   }

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

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

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

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

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

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

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

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

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

```
    Note: This object need not be set if it is a stand alone
    device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

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

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

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

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

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

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

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

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

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

 leaf clmgmtDevCredCommand {
  type enumeration {
```

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

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

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

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

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

```
          value "5";
         }
         enum "invalidFile" {
          value "6";
         }
        }
        description
         "This object indicates the the reason for device
         credentials export operation failure.

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

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

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

       leaf clmgmtDevCredRowStatus {
        type snmpv2-tc:RowStatus;
        description
         "This object indicates the the status of this table entry.
         Once the entry status is set to active(1), the associated
```

```
          entry cannot be modified until the action completes
          (clmgmtDevCredCommandStatus is set to a value
          other than inProgress(3)). Once the action completes
          the only operation possible after this is to delete
          the row.

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

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

  container object-1 {

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

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

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

```
  }

  container object-2 {

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

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

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

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

  container object-1 {

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

```
    }

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

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

  container object-2 {


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

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

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

  container object-3 {
```

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


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

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

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

  container object-1 {

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

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

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

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

  container object-2 {

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

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

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

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

```
mib:clmgmtLicenseFeatureVersion";
      }
    }

 }

  container object-3 {

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

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

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

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

  container object-4 {

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

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

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

  container object-5 {

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

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

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

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

```
      }
    }
  }
}

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

  container object-1 {

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

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

    leaf clmgmtLicenseIndex {
      type leafref {

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

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

```
    }
  }

  container object-2 {

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

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

  }

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

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

  container object-3 {

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

    leaf clmgmtLicenseStoreUsed {
```

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

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

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

  container object-4 {

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

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

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

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

  container object-5 {

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

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

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

  container object-6 {

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

    leaf clmgmtLicenseStoreUsed {
      type leafref {
```

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

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

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

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

   container object-1 {

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

     }
     }

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

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

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

  container object-2 {

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

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

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

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

```
    }
  }

  container object-3 {

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

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

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

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

  container
 object-4 {

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

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

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

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

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

  container object-1 {

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

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

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

    }

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

  container object-2 {

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

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

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

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

```
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

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

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

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

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

  container object-4 {

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

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

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

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

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

  container object-1 {

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

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

```
      }
    }

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

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

  container object-2 {

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

    leaf clmgmtLicenseStoreUsed {

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

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

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
```

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

  container object-3 {

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

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

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

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

  container object-4 {

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

```
      }
    }

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

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

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

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

  container object-1 {

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

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

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

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

  container object-2 {

    leaf entPhysicalIndex {

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

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

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

 notification clmgmtLicenseNotEnforced {
  description
   "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
```

```
 to indicate that there is no
     license installed for this feature and it needs to
     be done as soon as possible.";
   smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

   container object-1 {

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

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

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

   container object-2 {

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

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

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

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

  container object-1 {

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

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

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

```
  container object-2 {

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

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

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

  container object-3 {

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

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

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

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

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

  container object-1 {

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

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

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

  container object-2 {

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

```
    }

    leaf clmgmtFeatureIndex {
      type leafref {

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

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

  container object-3 {

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

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

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

 notification clmgmtLicenseSubscriptionExpired {
```

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

  container object-1 {

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

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

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

  container object-2 {

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

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

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

   container object-3 {

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

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

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

    }
     }
   }
 }

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

   container object-1 {
```

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

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

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

  container object-2 {

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

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

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

```
  }

   container object-3 {

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

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

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

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

  container object-1 {

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

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

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

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

  container object-2 {

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

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

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

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

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

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

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

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

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

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

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

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

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

}
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```

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

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

IMPORTS
  OBJECT-TYPE,
  MODULE-IDENTITY,
  Unsigned32,
  NOTIFICATION-TYPE
     FROM SNMPv2-SMI
  MODULE-COMPLIANCE,
  OBJECT-GROUP,
  NOTIFICATION-GROUP
     FROM SNMPv2-CONF
  TEXTUAL-CONVENTION,
  TruthValue
     FROM SNMPv2-TC
  SnmpAdminString
     FROM SNMP-FRAMEWORK-MIB
  entPhysicalIndex
     FROM ENTITY-MIB
  ciscoMgmt
     FROM CISCO-SMI;


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

     Postal: 170 W Tasman Drive
        San Jose, CA  95134
        USA
        Tel: +1 800 553 -NETS
        E-mail: cs-snmp@cisco.com"
  DESCRIPTION
     "The MIB module for managing the running image level
```

of a Cisco device. Cisco's licensing mechanism provides
flexibility to run a device on a chosen image level.
This mechanism is referred to as image level licensing.
Image level licensing leverages the universal image
based licensing solution.

The image level licensing mechanism works as follows -

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

1.141 prometheus-procfs 0.7.3

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1.142 bytebufferpool 1.0.0

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1.144 cffi 1.15.0

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1.145 globalsign-mgo 0.0.0-20181015135952-eeefdecb41b8

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mgo - MongoDB driver for Go

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1.146 influxdb 1.9.4

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1.147 gosnmp 1.32.0

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1.148 go-storage 1.13.0

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package cloud

import (
 "bytes"
 "io/ioutil"
 "os"
 "path/filepath"
 "strings"
 "testing"
)

var sentinels = []string{
 "Copyright",
 "Google",
 `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
 t.Parallel()
 skip := map[string]bool{
  // Automatically generated.
  "bigtable/cmd/cbt/cbtdoc.go": true,

  // BSD license,
 which is compatible, is embedded in the file.
  "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

  // From https://github.com/golang/pkgsite.
  "third_party/pkgsite/print_type.go": true,
  "third_party/pkgsite/synopsis.go":   true,
 }
 err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
   return nil
  }
```

```
 if strings.HasSuffix(path, ".pb.go") {
  // .pb.go files are generated from the proto files.
  // .proto files must have license headers.
  return nil
 }
 if skip[path] {
  return nil
 }
 src, err := ioutil.ReadFile(path)
 if err != nil {
  return nil
 }
 src = src[:300] // Ensure all of the sentinel values are at the top of the file.

 // Find license
 for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel)) {
   t.Errorf("%v: license header not present. want %q", path, sentinel)
   return
nil
  }
 }

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

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1.149 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.150 gomodule-redigo 2.0.0+incompatible

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1.152 fzambia-eagle 0.0.1

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1.153 mna-redisc 1.1.7

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1.154 mmap-go 1.0.0

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1.155 linkedin-goavro 2.10.0

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1.156 xorm.io-xorm 0.8.2

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

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update-license

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

Installation

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

Usage

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

Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
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* Verbose, dry run support
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/mod/module - https://github.com/golang/mod

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

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1.160 facebookgo-inject 0.0.0-20180706035515-f23751cae28b

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1.161 gopkg-in/macaron 1.4.0

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1.162 clockwork 0.2.2

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Clockwork - a clock process to replace cron
==========

Cron is non-ideal for running scheduled application tasks, especially in an app
deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby
process which sits alongside your web processes (Mongrel/Thin) and your worker
processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular
times or dates. For example, refreshing feeds on an hourly basis, or send
reminder emails on a nightly basis, or generating invoices once a month on the
1st.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
```

```
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job), [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/), [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application enviroment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
  handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
  every(5.minutes, 'thing.do')
  every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
  every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
    Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
  end
```

In production

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scehduler)

Design
 assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

Found in path(s):
* /clockwork-0-2-2-2-gem/data-tar-gz/README.md

1.163 opentracing-go-stdlib 1.0.0

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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.170 fzambia-sentinel 1.1.0

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1.173 go-sourcemap-sourcemap 2.1.3+incompatible

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1.174 grafana-grafana-plugin-sdk-go 0.88.0

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1.175 centrifugal-protocol 0.3.4

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1.176 grafana-grafana-aws-sdk 0.4.0

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1.177 grafana-loki 1.6.2-0.20201026154740-6978ee5d7387

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tomb - support for clean goroutine termination in Go.

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package spec

```
import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

func (l *License) UnmarshalJSON(data
 []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Go support for leveled logs, analogous to
https://code.google.com/p/google-glog/
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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
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DNS library in Go
https://miek.nl/2014/august/16/go-dns-package/
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LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
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gosnappy - a fork of code.google.com/p/snappy-go
https://github.com/syndtr/gosnappy
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go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
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```
package api

import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{}
 `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`
```

```
 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return "", err
 }
 defer resp.Body.Close()

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it
 is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
```

```
 }
 defer resp.Body.Close()

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

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Protocol Buffers for Go with Gadgets

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

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*/

package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS
   string          `xml:"xmlns,attr,omitempty"`
 XMLName xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}
```

```
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled ||
 r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
```

```
// Input validation.
if err := s3utils.CheckValidBucketName(bucketName); err != nil {
 return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
 return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
 urlValues.Set("versionId", opts.VersionID)
}

lh,
err := newObjectLegalHold(opts.Status)
if err != nil {
 return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
 return err
}

reqMetadata := requestMetadata{
 bucketName:       bucketName,
 objectName:       objectName,
 queryValues:      urlValues,
 contentBody:      bytes.NewReader(lhData),
 contentLength:    int64(len(lhData)),
 contentMD5Base64: sumMD5Base64(lhData),
 contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
 return err
}
if resp != nil {
 if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
  return httpRespToErrorResponse(resp, bucketName, objectName)
```

```
 }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions)
 (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

1.178 cortexproject-cortex 1.4.1-0.20201022071705-85942c5703cf

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*/

package minio
```

```
import (
 "bytes"
 "context"
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 "fmt"
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 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
```

```
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
 }

 // Get resources properly escaped and lined up before
 // using them in http request.
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if
 err != nil {
  return err
 }
```

```
 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
```

```
 queryValues:      urlValues,
 contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
 return nil, err
}
if resp != nil {
 if resp.StatusCode != http.StatusOK {
  return nil, httpRespToErrorResponse(resp, bucketName, objectName)
 }
}
lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
 return nil, err
}

 return &lh.Status, nil
}
```

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
```

```
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Protocol Buffers for Go with Gadgets

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

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import (
 "io/ioutil"
 "strings"

```
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
```

```
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license
 stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
```

```
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _,
 resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

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1.180 google-api-go-client 0.40.0

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ultiarraymodule.c#L2910

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

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r/R/dplyr-count-tally.R (some portions)

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package cloud

import (
 "bytes"
```

```
 "io/ioutil"
 "os"
 "path/filepath"
 "strings"
 "testing"
)

var sentinels = []string{
 "Copyright",
 "Google",
 `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
 t.Parallel()
 skip := map[string]bool{
  // Automatically generated.
  "bigtable/cmd/cbt/cbtdoc.go": true,

  // BSD license,
 which is compatible, is embedded in the file.
  "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

  // From https://github.com/golang/pkgsite.
  "third_party/pkgsite/print_type.go": true,
  "third_party/pkgsite/synopsis.go":   true,
 }
 err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
   return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
   // .pb.go files are generated from the proto files.
   // .proto files must have license headers.
   return nil
  }
  if skip[path] {
   return nil
  }
  src, err := ioutil.ReadFile(path)
  if err != nil {
   return nil
  }
  src = src[:300] // Ensure all of the sentinel values are at the top of the file.
```

```
 // Find license
 for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel)) {
   t.Errorf("%v: license header not present. want %q", path, sentinel)
   return
nil
  }
 }

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

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1.183 prometheus 1.8.2-0.20201105135750-00f16d1ac3a4

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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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1.184 golang-genproto 0.0.0-20210203152818-3206188e46ba

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1.186 centrifugal-centrifuge 0.13.0

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

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1.189 x-oauth2 0.0.0-20210113205817-d3ed898aa8a3

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1.190 common 0.0.0-20201119133501-0619918236ec

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1.191 v1-gonum 0.8.2

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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SOFTWARE.
A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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1.192 lumberjack 2.0.0

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1.193 nkeys 0.3.0

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1.195 jackc-puddle 1.1.3

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1.207 gofpdf 1.16.2

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1.208 prometheus-common 0.32.1

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1.214 google-uuid 1.3.0

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*/
```

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

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

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1.219 mattermost-xml-roundtrip-validator 0.1.0

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1.220 antchfx-xpath 1.2.0

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1.221 jackc-pgtype 1.9.1

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1.222 pq 1.9.0

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```
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
 struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
```

```
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
//
 handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

1.223 chardet 3.0.4

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1.224 jackc-pgproto 2.2.0

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1.225 gojsonschema 1.2.0

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1.226 gorilla 1.8.0

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package cloud

import (
 "bytes"
 "io/ioutil"
 "os"
 "path/filepath"
 "strings"
 "testing"
)

var sentinels = []string{
 "Copyright",
 "Google",
 `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
 t.Parallel()
 skip := map[string]bool{
  // Automatically generated.
  "bigtable/cmd/cbt/cbtdoc.go": true,

  // BSD license, which is compatible, is embedded in
 the file.
  "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

  // From https://github.com/golang/pkgsite.
  "third_party/pkgsite/print_type.go": true,
  "third_party/pkgsite/synopsis.go":   true,
 }
 err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
   return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
   // .pb.go files are generated from the proto files.
   // .proto files must have license headers.
   return nil
  }
  if skip[path] {
   return nil
```

```
 }
 src, err := ioutil.ReadFile(path)
 if err != nil {
  return nil
 }
 src = src[:300] // Ensure all of the sentinel values are at the top of the file.

 // Find license
 for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel)) {
   t.Errorf("%v: license header not present. want %q", path, sentinel)
   return nil
  }
 }

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

1.228 go-engine-io 0.0.0-20200527182501-e01fec600c76

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ISC

1.229 etcd-client 3.5.2

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1.230 etcd-client-pkg 3.5.2

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1.231 antchfx-xmlquery 1.3.9

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1.232 prometheus-client 1.12.1

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1.234 andybalholm-brotli 1.0.4

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com
to form the BeOpen PythonLabs team. 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
2.3	2.2.2	2002-2003	PSF	yes

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1.246 pkg_resources 0.0.0

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

1.247 pycparser 2.20

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1.248 prometheus-client 0.2.0

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1.249 glob 0.2.3

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1.250 blang-semver 3.5.1+incompatible

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1.251 go-jose 2.5.1

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1.252 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.253 google-uuid 1.2.0

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1.254 go-colorable 0.1.8

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1.255 color 1.10.0

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1.256 gokrb5 8.4.2

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1.260 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.262 sqlx 1.3.4

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1.264 python-requests 2.28.1

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1.265 openssl 3.0.5

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1.266 urllib3 1.26.10

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/no_field_presence_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_arena.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/api.proto
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util_lite.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arenastring.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_unittest.proto
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_proto3_lite.proto

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field_lite.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/any_test.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util_lite.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/wire_format_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/io_win32_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_entry.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/unittest_empty.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/arena_test_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/mathutil.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_generator.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/package_info.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/statusor.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/json_util_test.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection_tester.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/reflection.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/generated_message_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/time.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-

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*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_proto/google/protobuf/type.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/empty.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/parse_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_field_lite.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_lite_test_util.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/io/gzip_stream.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/int128_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/map_test.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/test_util.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_lite.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/compiler/subprocess.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/proto3_lite_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/status.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/common.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/message_unittest.inc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_stream.h
*
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/call_metric_recorder.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/channel_test_peer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_abseil.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/grpc_root/include/grpc/event_engine/internal/memory_allocator_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_credentials.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/binder_security_policy.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/event_engine.h
*
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/complicated.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simpler.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/authorization_policy_provider.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/admin_services.h

* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_certificate_verifier.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/ext/orca_service.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/port.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/flawed.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel_binder.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/slice_buffer.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_allocator.h
*
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simple.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/main.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/memory_request.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/event_engine/endpoint_config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/simplest.proto
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/xds_server_builder.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_generator.h
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 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/alloc.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_plugin.cc
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_generic.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/server_builder_option.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/metadata_map.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm_gcc_sync.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/slice.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/sync_stream.h
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*
 /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/service_type.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/atm.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/create_channel.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/status_code_enum.h

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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_generator_helpers.h
*
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/auth_context.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/client_unary_call.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/support/cpu.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/string_ref.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/slice.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/byte_buffer.h
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Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/mock_stream.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
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Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/server_builder.h
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/call_op_set.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpc++/impl/codegen/proto_utils.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/interceptor_common.h
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Metadata-Version: 1.2
Name: grpcio-tools
Version: 1.47.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools
    ==========

    Package for gRPC Python tools.

    Supported Python Versions

    Python >= 3.6

    Installation

    The gRPC Python tools package is available for Linux, Mac OS X, and Windows.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

  $ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

  $ sudo pip install grpcio-tools

If you're on Windows make sure that you installed
the :code:`pip.exe` component
when you installed Python (if not go back and install it!) then invoke:

::

  $ pip.exe install grpcio-tools

Windows users may need to invoke :code:`pip.exe` from a command line ran as
administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip`
to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest
version!

You might also need to install Cython to handle installation via the source
distribution if gRPC Python's system coverage with wheels does not happen to
include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can
probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

  $ export REPO_ROOT=grpc # REPO_ROOT can be any directory of your choice
  $ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT

```
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

::

```
Traceback (most recent call last):
File "<string>", line 17, in <module>
 ...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
  raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

::

```
sudo pip install --ignore-installed six
```

* **... see compiler errors on some platforms when either installing from source or from the source distribution**
~~~~~~~~~~~~~~~

If you see

::

```
/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
                ^
compilation terminated.
```

You can fix it by installing `python-dev` package. i.e

::

```
sudo apt-get install python-dev
```

If you see something similar to:

::

```
third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\
                            ^
```

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

```
$ python -m grpc_tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided
command class in your :code:`setup.py`:

::

```
setuptools.setup(
  # ...
  cmdclass={
```

```
          'build_proto_modules': grpc_tools.command.BuildPackageProtos,
        }
        # ...
      )
```

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

Note that this particular approach requires :code:`grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no
combination of :code:`setup_requires` or :code:`install_requires` will provide
access to :code:`grpc_tools.command.BuildPackageProtos` if it isn't already
installed). One way to work around this can be found in our
:code:`grpcio-health-checking`
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

```
  class BuildPackageProtos(setuptools.Command):
    """Command to generate project *_pb2.py modules from proto files."""
    # ...
    def run(self):
      from grpc_tools import command
      command.build_package_protos(self.distribution.package_dir[''])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the
command on-setup as desired.

For more information on command classes, consult :code:`distutils` and
:code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: License :: OSI Approved :: Apache Software License
Requires-Python: >=3.6

Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/PKG-INFO
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpcio_tools.egg-info/PKG-INFO
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Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/io/gzip_stream_unittest.sh
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/compiler/zip_output_unittest.sh
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Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-
1.47.0/third_party/protobuf/src/google/protobuf/stubs/structurally_valid_unittest.cc
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* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_version.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/_parallel_compile_patch.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/_protoc_compiler.pyx
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/BUILD
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/protoc.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/__init__.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/protoc_test.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/setup.py
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/command.py
*

/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/protoc_lib_deps.py
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/* "grpc_tools/_protoc_compiler.pyx":1
* # Copyright 2020 The gRPC authors. # <<<<<<<<<<<<<<
* #
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*/

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

Found in path(s):
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/sync.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
*
/grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/config_protobuf.h
* /grpcio-tools-1-47-0-tar-gz/grpcio-tools-1.47.0/grpc_root/src/compiler/cpp_plugin.h
*

1.269 grpcio 1.47.0

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```
--
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--
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--
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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
```

```
  NOTIFICATION-TYPE
     FROM SNMPv2-SMI
  jnxLicenseMibRoot
     FROM JUNIPER-SMI
  DisplayString
     FROM SNMPv2-TC;

jnxLicenseMIB       MODULE-IDENTITY
  LAST-UPDATED    "201906170000Z"
  ORGANIZATION    "Juniper Networks, Inc."
  CONTACT-INFO
         "Juniper Technical Assistance Center
          Juniper Networks, Inc.
          1133 Innovation Way
          Sunnyvale, CA 94089
          E-mail: support@juniper.net"
  DESCRIPTION
     "Implementation of enterprise specific MIB
      for license commands and configuration."
  REVISION    "201007090000Z"    -- Jul 09, 2010
  DESCRIPTION
         "Initial version."

   REVISION    "201612150000Z"    -- Dec 15, 2016
  DESCRIPTION
         "Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"


  REVISION    "201906170000Z"    -- Jun 17, 2019
  DESCRIPTION
         "Deprecated jnxLicenseKeys."

  ::=  {  jnxLicenseMibRoot  1  }

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

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

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

jnxLicenseInstallTable   OBJECT-TYPE
  SYNTAX           SEQUENCE  OF  JnxLicenseInstallEntry
  MAX-ACCESS       not-accessible
  STATUS           current
```

```
  DESCRIPTION      "This table contains installed feature license information."
   ::=  { jnxLicenseInstallObjects 1 }

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

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

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

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

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

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

```
jnxLicenseKeys      OBJECT-TYPE
  SYNTAX          OCTET STRING
  MAX-ACCESS      read-only
  STATUS          deprecated
  DESCRIPTION     "******** THIS OBJECT IS DEPRECATED ********
                  This object is deprecated,
                  it displays all the license keys
                  in the system."

  ::=  {  jnxLicenseInstallEntry 5  }

jnxLicenseKeyType      OBJECT-TYPE
  SYNTAX          INTEGER {commercial(1),
 trial(2), demo(3), emergency(4), lab(5), education(6)}
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION     "License key type"
  ::=  {  jnxLicenseInstallEntry 6  }

-- Feature Listing Table

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

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

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

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

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

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

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

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

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

jnxLicenseFeatureLicenseNeeded  OBJECT-TYPE
  SYNTAX        INTEGER
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION   "Licenses Needed"
```

```
  ::=  {  jnxLicenseFeatureListEntry 7  }


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

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

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

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



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

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

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
```

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

jnxLicenseAboutToExpire NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the license period for
      feature identified by jnxLicenseFeatureName is about to expire"
  ::= { jnxLicenseNotifications 3 }

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

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

jnxLicenseKeyExpired NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName,  jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the license for feature
      identified by jnxLicenseFeatureName is not valid i.e. either expired or
      not available."
  ::= { jnxLicenseNotifications 6 }

END
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
*/
```

```
/*
* This YANG module has been generated by smidump 0.5.0:
*
*      smidump -f yang CISCO-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-LICENSE-MGMT-MIB {

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

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

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

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

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

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

 organization
  "Cisco Systems Inc.";

 contact
  "Cisco Systems
   Customer Service

   Postal: 170 W Tasman Drive

   San Jose, CA  95134

   USA

   Tel: +1 800 553 -NETS
```

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

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

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

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

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

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

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

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

EULA:
End User License Agreement.

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

RIGHT TO USE (RTU) LICENSE:

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

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

EXTENSION LICENSE:

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

GRACE PERIOD LICENSE:

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

PERMANENT LICENSE:

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

COUNTED LICENSE:

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

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar

entities that can use the licenses.

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

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

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

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

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

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

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

REHOST:
Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device

processes the permission ticket, revokes the license(s)
on the device and generates a rehost ticket as the
proof of revocation. This rehost ticket needs to be

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

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

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

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

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

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

STEPS TO CLEAR A LICENSE:
To clear a license, the management application
1. Identifies the license to be cleared using license
index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:
To rehost a license, the management application
1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get
the permission ticket, uses device credentials to
identify the device.
3. Executes the processPermissionTicket action. Device

revokes the license and generates rehost ticket to be submitted as proof of revocation.

4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.
6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

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

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

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

It also defines MIB objects to expose management

```
  information associated with the licenses installed on the
  device, with the licensable features in the software image.

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

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

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

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

    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

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

```
      clmgmtFeaturePeriodUsed
    o Added the following notifications
      clmgmtLicenseEvalRTUTransitionWarning
      clmgmtLicenseEvalRTUTransition
     o Added the following conformance groups
      clmgmtLicenseRTUGroup
      clmgmtLicenseRTUUsageNotifGroup

    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

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

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

typedef ClmgmtLicenseIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
```

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

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

typedef ClmgmtLicenseTransferProtocol {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "local" {
      value "2";
    }
    enum "tftp" {
      value "3";
    }
    enum "ftp" {
      value "4";
    }
    enum "rcp" {
      value "5";
    }
    enum "http" {
      value "6";
    }
    enum "scp" {
      value "7";
    }
    enum "sftp" {
      value "8";
    }
  }
```

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

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

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

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

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

    successful(4)        - action has completed successfully.

    partiallySuccessful(5) - action has completed, but was
```

```
                    partially successful. Management
                    application can query additional MIB
                    objects to know what is successful
                    and what has failed. These addtional
                    objects are listed in the
                    description of the corresponding
                    action tables.

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

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

```
      value "12";
    }
    enum "licenseInUse" {
      value "13";
    }
    enum "invalidLicenseStore" {
      value "14";
    }
    enum "licenseStorageFull" {
      value "15";
    }
    enum "invalidPermissionTicketFile" {
      value "16";
    }
    enum "invalidPermissionTicket" {
      value "17";
    }
    enum "invalidRehostTicketFile" {
      value "18";
    }
    enum "invalidRehostTicket"
  {
      value "19";
    }
    enum "invalidLicenseBackupFile" {
      value "20";
    }
    enum "licenseClearInProgress" {
      value "21";
    }
    enum "invalidLicenseEULAFile" {
      value "22";
    }
   }
   description
    "Reason for license action failure. Defines error codes for
    all the license actions.

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

Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

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

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

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

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

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

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

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

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

invalidLicenseStore(14) - License store is not valid.

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

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

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

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

invalidRehostTicket(19) - The rehost ticket file contents

are not valid.

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

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

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


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

  container clmgmtLicenseConfiguration {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";


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

  container clmgmtLicenseDeviceInformation {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

    leaf clmgmtNextFreeDevCredExportActionIndex {
      type uint32;
      description
       "This object contains appropriate value for
        clmgmtDevCredExportActionIndex that can be used to create
        an entry in clmgmtDevCredExportActionTable. The management
        application should read this object first and then use this
        as the value for clmgmtDevCredExportActionIndex to avoid
```

```
        collisions when creating entries in
        clmgmtDevCredExportActionTable. Following this approach does
        not guarantee collision free row creation, but will reduce
        the probability. The collision will happen if two
        management applications read this object at the same time and
        attempt to create an entry
with this value at the same time.
        In this case, the management application whose request is
        processed after the first request will get an error and the
        process of reading this object and entry creation needs to be
        repeated.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
    }
  }

  container clmgmtLicenseNotifObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

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

    leaf clmgmtLicenseDeploymentNotifEnable {
      type boolean;
      description
       "This object indicates whether the device should generate
        notifications related to license deployment. This object
        enables/disables sending following notifications:
            clmgmtLicenseInstalled
            clmgmtLicenseCleared
            clmgmtLicenseRevoked
```

```
        clmgmtLicenseEULAAccepted";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
   }

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

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

     Refer to the description of clmgmtLicenseAction for more
     information on what these actions do on the device.
     Once the request completes, the management
application should
     retrieve the values of the objects of interest, and then
     delete the entry.  In order to prevent old entries from
     clogging the table, entries will be aged out, but an entry
     will never be deleted within 5 minutes of completion.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

   list clmgmtLicenseActionEntry {
    key "clmgmtLicenseActionIndex";
    description
     "An entry for each action that is being executed or was
      executed recently. The management application executes an
```

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

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

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

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

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

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

a. clmgmtLicenseActionTransferProtocol

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

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

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

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

3. Revoking a license
The following MIB objects need to be set for revoking a license
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicensePermissionTicketFile
g. clmgmtLicenseRehostTicketFile
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAction

4. Regenerate last rehost ticket
The following

MIB objects need to be set for regenerating
last rehost ticket

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

5. Save all licenses to a backup storage
The following MIB objects need to be set for storing all licenses to a backup store

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

6. Generate and export EULA if the licenses need EULA to be accepted for installing.
The following MIB objects need to be set exporting required EULAs

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

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

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

Entry can be deleted

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

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

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

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

```
          3. clmgmtLicenseRehostTicketFile
          4. clmgmtLicenseBackupFile

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

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

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

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

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

      leaf clmgmtLicenseServerUsername {
        type snmp-framework:SnmpAdminString {
          length "0..96";
        }
        description
         "This object indicates the
```

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

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

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

    leaf clmgmtLicenseStore {
      type uint32;
      description
```

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

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

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

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

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

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

      leaf clmgmtLicenseAction {
       type enumeration {
```

```
      enum "noOp" {

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

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

      install(2)                  Installs the license.

      clear(3)                    Clears the license.

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

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

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

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

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

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

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

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

  leaf clmgmtLicenseActionStorageType {
```

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

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

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

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

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

          Management application should set this object to true(1) when
          installing licenses that need EULA acceptance.";
        smiv2:defval "false";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
      }

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

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

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

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

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

      leaf clmgmtLicenseNumber {
        type uint32 {
```

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

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

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

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

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

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

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

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

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

      leaf clmgmtLicenseStoreSizeRemaining {
        type uint32;
        units "bytes";
        description
```

```
        "This object indicates the number of bytes still remaining
         to be used for new license installations in the license
         store.";
       smiv2:max-access "read-only";
       smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
      }
     }
    }

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

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

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

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

```
      }
    }
  }

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

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

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

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

      leaf clmgmtLicenseIndex {
        type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
        description
         "This object uniquely identifies a license within
          the device.";
```

```
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
    }

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

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

    leaf clmgmtLicenseType {
      type enumeration {
        enum "demo" {
          value "1";
        }
        enum "extension"
{
          value "2";
        }
        enum "gracePeriod" {
          value "3";
        }
        enum "permanent" {
          value "4";
        }
        enum "paidSubscription" {
          value "5";
        }
```

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

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

        based on calendar days. These licenses
                              have a start date and an end date
                              associated with them and are issued
                              once per UDI.
        extensionSubscription(7)- Extension subscription licenses are
                              similar to evaluation subscription
                              licenses but these licenses are issued
                              based on customer request. There are
                              no restrictions on the number of
```

```
                    licenses available for a UDI.
      evalRightToUse(8)       - Evaluation Right to use (RTU)
      license.
      rightToUse(9)           - Right to use (RTU) license.
      permanentRightToUse(10) ? Right To Use license right after it is configured
                    and is valid for the lifetime of
the product.
                    This is a Right To Use license which is not in
                    evaluation mode for a limited time.";
     smiv2:max-access "read-only";
     smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
    }

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

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

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

```
    }

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

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

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

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

        true(1)  - EULA accpeted
        false(2) - EULA not accepted";
```

```
 smiv2:max-access "read-only";
 smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}

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

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

  inactive(1)          - license is installed, but
                       not active.
  notInUse(2)          - license is installed and
                       available for use.
  inUse(3)             - the license is being used (by
                       a feature).
  expiredInUse(4)
```

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

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

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

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

    leaf clmgmtLicensePeriodUsed {
     type uint32;
     units "seconds";
     description
      "This
object indicates the time period used for the
       Right to use (RTU) licenses. This object is applicable for all
       RTU licenses.";
```

```
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
       }
     }
   }

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

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

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

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

       leaf clmgmtFeatureName {
         type snmp-framework:SnmpAdminString {
           length "0..128";
         }
```

```
        description
         "This object indicates the name of the licensable feature
          in the device. Examples of feature names are: 'IPBASE',
          'ADVIPSERVICE'";
        smiv2:max-access
"read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
      }

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

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

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

      leaf clmgmtFeatureWhatIsCounted {
        type snmp-framework:SnmpAdminString {
          length "0..128";
        }
        description
         "This object represents the entity that is being counted
          by this feature. Examples of entities are IP Phones, number
```

```
        of sessions etc. This object is only applicable for
        features that use counting licenses. For other features,
        this object will return empty string.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
     }

     leaf clmgmtFeatureStartDate {

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

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

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

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

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

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

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

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

        The status of action execution can be known by
querying
        clmgmtDevCredCommandState. If the action is still in
```

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

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

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

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

          Note: This object need not be set if it is a stand alone
          device";
        smiv2:defval "0";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
      }

      leaf clmgmtDevCredTransferProtocol {
```

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

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

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

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

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

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

 description
    "This object indicates the remote user name for accessing
     files via ftp, rcp, sftp or scp protocols. This object
```

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

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

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

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

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

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

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

    leaf clmgmtDevCredCommandFailCause {
      type enumeration {
        enum "none" {
          value "1";
        }
        enum "unknownError" {
          value "2";
        }
        enum "transferProtocolNotSupported"
{
          value "3";
        }
        enum "fileServerNotReachable" {
          value "4";
        }
        enum "unrecognizedEntPhysicalIndex" {
          value "5";
        }
        enum "invalidFile" {
          value "6";
        }
      }
      description
       "This object indicates the the reason for device
        credentials export operation failure.
```

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

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

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

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

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

```
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
      }
    }
  }
}

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

  container object-1 {

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

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

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

  container object-2 {

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

```
      }
    }

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

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

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

  container object-1 {

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

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

```
    }

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

  container object-2 {


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

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

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

  container object-3 {

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

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

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

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

  container object-1 {

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

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

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
```

```
    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref
 {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }

 }

  container object-3 {
```

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseMaxUsageCount {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
       }
    }
  }

  container object-4 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
```

```
    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }

  container object-5 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }
 }

 notification clmgmtLicenseUsageCountAboutToExceed
 {
  description
```

```
    "This notification is sent when clmgmtLicenseUsageCountRemaining
     has reached 80% of clmgmtLicenseMaxUsageCount for a counting
     license. This is a warning notification to the management
     application that very soon the maximum count will be reached
     and after that the device will not allow new entities to
     make use of this license.";
   smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";

   container object-1 {

     leaf entPhysicalIndex {
       type leafref {
         path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
     }

     leaf clmgmtLicenseStoreUsed {
       type leafref {
         path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
     }

     leaf clmgmtLicenseIndex {
       type leafref {

   path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
       }
     }

     leaf clmgmtLicenseFeatureName {
       type leafref {
         path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
       }
     }
   }

   container object-2 {

     leaf entPhysicalIndex {
       type leafref {
         path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
```

```
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }

  }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
    }

    leaf clmgmtLicenseIndex {
```

```
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseMaxUsageCount {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
      }
    }
  }

  container object-4 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseUsageCountRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
      }
    }
```

```
  }

  container object-5 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref
 {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureWhatIsCounted {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
      }
    }
  }

  container object-6 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
```

```
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }
 }

 notification clmgmtLicenseInstalled {
  description
   "This notification is sent when a license is installed
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

    }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }
```

```
    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type
```

```
 leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
      }
    }
  }

  container
 object-4 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
```

```
    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
       }
    }
  }
 }

 notification clmgmtLicenseCleared {
  description
   "This notification is sent when a license is cleared
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
```

```
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
       }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {
```

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
       }
    }

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
      }
    }
  }

  container object-4 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }
```

```
    leaf clmgmtLicenseIndex {
      type leafref {
        path
 "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }
 }

 notification clmgmtLicenseRevoked {
  description
   "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
```

```
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {

   type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
      }
    }
  }

  container object-3 {
```

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
       }
    }

    leaf clmgmtLicenseType {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
       }
    }
  }

  container object-4 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
       }
```

```
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }
 }

 notification clmgmtLicenseEULAAccepted {
  description
   "This
 notification is sent when a user accepts End User
    License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
```

```
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {

 type leafref {
       path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }
 }

 notification clmgmtLicenseNotEnforced {
  description
   "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
 to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
```

```
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf
 entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }
```

```
}

 notification clmgmtLicenseSubscriptionExpiryWarning {
  description
   "This notification is sent when a subscription license of a
    feature is about to expire. This notification will be sent as
    per the following
 schedule:
    Once a week for the last eight weeks
    Once a day for the last week
    Once a hour for the last day";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf
 entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
```

```
    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf
 clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }
 }

 notification clmgmtLicenseSubscriptionExtExpiryWarning {
  description
```

```
    "This notification is sent when the subscription license end
     date of a feature is reached but extension period is left. This
     notification will be sent once a day after the license end date
     is reached.";
   smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

   container object-1 {

     leaf entPhysicalIndex {
       type leafref {
         path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
     }

     leaf clmgmtFeatureIndex {
       type leafref {
         path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
       }
     }

     leaf clmgmtFeatureName {
       type leafref {
         path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
       }
     }
   }

   container object-2 {

     leaf entPhysicalIndex {
       type leafref {
         path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
     }

     leaf clmgmtFeatureIndex {
       type leafref {

      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
       }
```

```
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
       }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }
 }

 notification clmgmtLicenseSubscriptionExpired {
  description
   "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

  container object-1 {

    leaf entPhysicalIndex {
```

```
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
       }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
       }
    }
  }
```

```
  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";

    }
    }
  }
 }

 notification clmgmtLicenseEvalRTUTransitionWarning {
  description
   "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
```

```
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
       }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

   container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
```

```
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureValidityPeriodRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
      }
    }
  }
 }

 notification clmgmtLicenseEvalRTUTransition {
  description
   "This notification is sent, when a feature license transitions
    from a evaluation to a
 Right to use (RTU) license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
```

```
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }
 }

 smiv2:alias "ciscoLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.543";
 }

 smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.0";
 }

 smiv2:alias "ciscoLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1";
 }

 smiv2:alias "clmgmtLicenseConfiguration" {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
 }
```

```
 smiv2:alias "clmgmtLicenseInformation" {
   smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
 }

 smiv2:alias "clmgmtLicenseDeviceInformation" {
   smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
 }

 smiv2:alias "clmgmtLicenseNotifObjects" {
   smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
 }

 smiv2:alias "ciscoLicenseMgmtMIBConform" {
   smiv2:oid "1.3.6.1.4.1.9.9.543.2";
 }

 smiv2:alias "ciscoLicenseMgmtCompliances" {
   smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
 }

 smiv2:alias "ciscoLicenseMgmtGroups" {
   smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
 }

}
-- ****************************************************************************
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- ****************************************************************************

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
   OBJECT-TYPE,
   MODULE-IDENTITY,
   Unsigned32,
   NOTIFICATION-TYPE
      FROM SNMPv2-SMI
   MODULE-COMPLIANCE,
   OBJECT-GROUP,
   NOTIFICATION-GROUP
      FROM SNMPv2-CONF
```

```
  TEXTUAL-CONVENTION,
  TruthValue
     FROM SNMPv2-TC
  SnmpAdminString
     FROM SNMP-FRAMEWORK-MIB
  entPhysicalIndex
     FROM ENTITY-MIB
  ciscoMgmt
     FROM CISCO-SMI;


ciscoImageLicenseMgmtMIB MODULE-IDENTITY
  LAST-UPDATED    "200710160000Z"
  ORGANIZATION    "Cisco Systems Inc."
  CONTACT-INFO
        "Cisco Systems
        Customer Service

     Postal: 170 W Tasman Drive
        San Jose, CA  95134
        USA
        Tel: +1 800 553 -NETS
        E-mail: cs-snmp@cisco.com"
  DESCRIPTION
     "The MIB module for managing the running image level
     of a Cisco device. Cisco's licensing mechanism provides
     flexibility to run a device on a chosen image level.
     This mechanism is referred to as image level licensing.
     Image level licensing leverages the universal image
     based licensing solution.

     The image level licensing mechanism works as follows -

     A universal image that contains all levels of software
     packages is loaded on to the device. At boot time, the
     device determines the highest level of license and brings
     up the appropriate software features or subsystems.
     The user can configure the image level with which the
     device has to boot. The system will verify whether the
     appropriate license is available for
 the configured image
     level. The image level for the next boot will be determined
     based on the availability of the license. The following
     scenarios explains some use-cases of image level licensing:

     Scenario 1:
     - Customer selects advsecurityk9 based image.
     - Manufacturing installs advsecurity license on the device.
```

- This device will run all features that are part of the
base advsecurity license.
- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the
next reboot. After reboot the device will run
advipservicesk9 features.

Scenario 2:
- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity
license on the device.
- This device will run all features that are part of the
base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA)
before using this MIB to configure the image level.

This MIB should be used in conjuntion with
CISCO-LICENSE-MGMT-MIB module to achieve the image level
licensing functionality.

This MIB module defines objects which provides the different
image levels supported by the device and the license required
to enable a particular image level. It also defines objects
to let the user configure the required image level. The MIB
module contains notification which will be triggered when
the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export
the EULA and to configure the required license.

This MIB module is defined generically so it can be used for
both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify
the device uniquely."
REVISION "200710160000Z"
DESCRIPTION
"Initial version of this MIB module."
::= { ciscoMgmt 640 }

ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER

```
  ::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 2 }


BootImageLevel ::= TEXTUAL-CONVENTION
  STATUS         current
  DESCRIPTION
     "This textual convention is used to define
     the image level.

     If the device is running at advipservices
     image level, then the boot image level will
     be 'advipservices'."
  SYNTAX         OCTET STRING (SIZE (0..255))

LicenseNameList ::= TEXTUAL-CONVENTION
  STATUS         current
  DESCRIPTION
     "This textual convention is used to define
     the list of license names.
 If multiple licenses
     are present then this string will contain all
     the licenses seperated by the ',' character.

     If the license required to run a device at
     advipservices image level is advipservices and
     advsecurity, then the license name list will be
     'advipservices,advsecurity'."
  SYNTAX         OCTET STRING (SIZE (0..255))
-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF CilmBootImageLevelEntry
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "A table that contains the configuration information of
     current and next boot image level. This table contains
     entries for each software module running in an image
     loaded in the device. The software module is identified by
     cilmModuleName and the device is identified by
     entPhysicalIndex."
  ::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry
```

```
 OBJECT-TYPE
   SYNTAX         CilmBootImageLevelEntry
   MAX-ACCESS     not-accessible
   STATUS         current
   DESCRIPTION
      "An entry in the table for each module containing the
      list of objects that define the configuration of next
      boot level. The following information is specified by
      the objects present in the table.

      - Current image level.
      - Configured image level for the next boot.
      - Actual image level for the next boot.
      - License store index for the current license.
      - License index of the current license.
      - License store index for the next boot license.
      - License index of the next boot license."
   INDEX          {
                    entPhysicalIndex,
                    cilmModuleName
                  }
   ::= { cilmBootImageLevelTable 1 }

CilmBootImageLevelEntry ::= SEQUENCE {
      cilmModuleName               SnmpAdminString,
      cilmCurrentImageLevel
        BootImageLevel,
      cilmConfiguredBootImageLevel  BootImageLevel,
      cilmNextBootImageLevel        BootImageLevel,
      cilmCurrentLicenseStoreIndex  Unsigned32,
      cilmCurrentLicenseIndex       Unsigned32,
      cilmNextBootLicenseStoreIndex Unsigned32,
      cilmNextBootLicenseIndex      Unsigned32
}

cilmModuleName OBJECT-TYPE
   SYNTAX         SnmpAdminString
   MAX-ACCESS     not-accessible
   STATUS         current
   DESCRIPTION
      "This object is used as one of the two indices in
      cilmBootImageLevelTable. This object indicates the module
      name of the software package. There can be multiple
      modules in an image performing specific functionality.
      For example, in a wireless image there can be two modules
      - a base image module and a wireless module."
   ::= { cilmBootImageLevelEntry 1 }
```

```
cilmCurrentImageLevel OBJECT-TYPE
  SYNTAX        BootImageLevel
  MAX-ACCESS    read-only
  STATUS
       current
  DESCRIPTION
     "This object indicates the current image level that
     the module is running."
  ::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE
  SYNTAX        BootImageLevel
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION
     "This object indicates the configured image level
     of the module for the next boot.

     Note: The configured next boot image level may not
     be the actual next boot image level. The actual next
     boot image level is denoted by cilmNextBootImageLevel
     which is determined based on the license availability."
  ::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE
  SYNTAX        BootImageLevel
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the next boot image level. The
     next boot image level can be different from configured
     level. The next boot
 image level is determined based
     on the availability of required license."
  ::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE
  SYNTAX        Unsigned32
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the license store index where the
     currently used license is stored. This object has the same
     value as clmgmtLicenseStoreIndex object and uniquely
     identifies an entry in clmgmtLicenseStoreInfoTable in
     CISCO-LICENSE-MGMT-MIB.

     Note: The license store index can be '0' if no license is
```

```
      installed and device is running base image."
    ::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE
    SYNTAX          Unsigned32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
      "This object indicates the license index of the currently used
      license. This object has the same value as clmgmtLicenseIndex
 and
      uniquely identifies an entry in clmgmtLicenseInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license index can be '0' if no license is
      installed and device is running base image."
    ::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE
    SYNTAX          Unsigned32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
      "This object indicates the license store index where the
      next boot license is stored. This object has the same
      value as clmgmtLicenseStoreIndex object and uniquely
      identifies an entry in clmgmtLicenseStoreInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license store index can be '0' if no license is
      installed for the next boot."
    ::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE
    SYNTAX          Unsigned32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
      "This object indicates
 the license index of the next boot
      license. This object has the same value as clmgmtLicenseIndex
      and uniquely identifies an entry in clmgmtLicenseInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license index can be '0' if no license is
      installed for the next boot."
    ::= { cilmBootImageLevelEntry 8 }
```

```
cilmImageLevelToLicenseMapTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF CilmImageLevelToLicenseMapEntry
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "This table contains the mapping between different
     image levels of each modules in the image and the
     license required to run the modules at a particular
     image level. This table can be used to identify the
     different image levels and the appropriate licenses
     required for each."
  ::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE
  SYNTAX         CilmImageLevelToLicenseMapEntry
   MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "An entry in the table containing the following
     information.
     - The image levels at the which the modules can be run.
     - The license required to the run a module at a
     particular image level.
     - The priority of the license."
  INDEX          {
                   entPhysicalIndex,
                   cilmModuleName,
                   cilmImageLicenseMapIndex
                 }
  ::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {
     cilmImageLicenseMapIndex   Unsigned32,
     cilmImageLicenseImageLevel BootImageLevel,
     cilmImageLicenseName       LicenseNameList,
     cilmImageLicensePriority   Unsigned32
}

cilmImageLicenseMapIndex OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "This is a running
 index used to identify an entry
     of this table."
```

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE
SYNTAX BootImageLevel
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created
in this table for every module and image level
combination."
::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE
SYNTAX LicenseNameList
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the list of licenses needed to
be installed for the module to run at the image level
mentioned by cilmImageLicenseImageLevel object of this
entry."
::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE
SYNTAX Unsigned32
(1..255)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the priority of the image level
mentioned by cilmImageLicenseImageLevel object of this
entry. The image level with the highest priority license
will be considered as the default level in the absense of
next boot image level configuration. For example if there
are three licenses l1, l2 and l3 in the ascending order of
priority, then by default l1 will be the level at which the
module will be running. If the next boot level is configured
then the configuration will override the priority. The highest
priority license supports a feature set which is a super set of
all other licenses."
::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

```
cilmEULAAccepted OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION

 "This object when set to TRUE means that the user has
     accepted the END USER LICENSE AGREEMENT. This object
     has to be set to TRUE by the user before using the
     objects in the cilmBootImageLevelTable to configure
     the license."
  DEFVAL        { false }
  ::= { ciscoImageLicenseMgmtMIBObjects 3 }
-- Notification control

cilmNotifCntl  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBObjects 4 }


cilmImageLevelChangedNotif OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION
     "Specify whether or not a notification should be
     generated on the detection of change in next boot
     image level.

     If set to TRUE, cilmBootImageLevelChanged notification
     will be generated. It is the responsibility of the
     management entity to ensure that the SNMP administrative
     model is configured in such a way as to allow the
     notification to be delivered."
   REFERENCE
     "See also RFC3413 for explanation that notifications
     are under the ultimate control of the MIB module in
     this document."
  DEFVAL        { false }
  ::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE
  OBJECTS       {
                  cilmCurrentImageLevel,
                  cilmConfiguredBootImageLevel
                }
  STATUS        current
```

```
  DESCRIPTION
      "This notification is triggered when next boot image level
      is changed in the management entity. The current and
      configured image level are indicated by cilmCurrentImageLevel
      and cilmConfiguredBootImageLevel objects respectively."
  ::= { ciscoImageLicenseMgmtMIBNotifs 1 }
-- Conformance

cilmModuleCompliances  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBConform 2 }


cilmModuleCompliance MODULE-COMPLIANCE
   STATUS         current
  DESCRIPTION
      "Compliance statement for Cisco Image level license mgmt MIB."
  MODULE         -- this module
  MANDATORY-GROUPS {
                   cilmAdminGroup,
                   cilmNotifGroup
                 }

  GROUP          cilmOperGroup
  DESCRIPTION
      "This group is mandatory for all devices where
      multiple license are supported."
  ::= { cilmModuleCompliances 1 }

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
  OBJECTS        {
                   cilmCurrentImageLevel,
                   cilmConfiguredBootImageLevel,
                   cilmNextBootImageLevel,
                   cilmCurrentLicenseStoreIndex,
                   cilmCurrentLicenseIndex,
                   cilmNextBootLicenseStoreIndex,
                   cilmNextBootLicenseIndex,
                   cilmEULAAccepted,
                   cilmImageLevelChangedNotif

           }
  STATUS         current
  DESCRIPTION
```

```
      "Objects for performing license set operation for setting
      next boot level."
   ::= { cilmModuleGroups 1 }

cilmOperGroup OBJECT-GROUP
   OBJECTS        {
                    cilmImageLicenseImageLevel,
                    cilmImageLicenseName,
                    cilmImageLicensePriority
                  }
   STATUS         current
   DESCRIPTION
      "Objects for getting current image level configuration data."
   ::= { cilmModuleGroups 2 }

cilmNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS    { cilmBootImageLevelChanged }
   STATUS         current
   DESCRIPTION
      "Objects for getting current image level configuration data."
   ::= { cilmModuleGroups 3 }

END
-- ****************************************************************************
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- ****************************************************************************

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
   OBJECT-TYPE,
   MODULE-IDENTITY,
   Unsigned32,
   NOTIFICATION-TYPE
      FROM SNMPv2-SMI
   MODULE-COMPLIANCE,
   OBJECT-GROUP,
   NOTIFICATION-GROUP
      FROM SNMPv2-CONF
   TEXTUAL-CONVENTION,
   TruthValue,
```

```
    RowStatus,
    StorageType,
    DateAndTime
        FROM SNMPv2-TC
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    entPhysicalIndex,
    PhysicalIndexOrZero
        FROM ENTITY-MIB
    InetAddressType,
    InetAddress
        FROM INET-ADDRESS-MIB
    ciscoMgmt
        FROM CISCO-SMI;


ciscoLicenseMgmtMIB MODULE-IDENTITY
    LAST-UPDATED    "201204190000Z"
     ORGANIZATION    "Cisco Systems Inc."
    CONTACT-INFO
            "Cisco Systems
            Customer Service

            Postal: 170 W Tasman Drive

            San Jose, CA  95134

            USA

            Tel: +1 800 553 -NETS

            E-mail: cs-snmp@cisco.com"
    DESCRIPTION
        "The MIB module for managing licenses on the system.
        The licensing mechanism provides flexibility to
        enforce licensing for various features in the system.

        The following text introduces different concepts and
        terms those are necessary to understand the MIB definition
        and to perform license management.

        UDI
            Universal Device Identifier that uniquely identifies a
            device. It comprises of product ID, version ID and serial
            number of the device.

        NODE LOCKED LICENSE:
            Node locked licenses are locked to one of the device
```

identifiers in the system. For example, the license can be locked to the UDI value of one of the devices in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:
Non-node locked licenses are not locked to any device identifier. They can be used on other similar devices.

METERED LICENSE:
Metered licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:
End User License Agreement.

EVALUATION LICENSE:
Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User
will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:
Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product. User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:
Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses.
These licenses are issued by Cisco's licensing portal
as part of the permission ticket to rehost a license.
These licenses are installed on the device as part of
the rehost operation. User will have to accept an
EULA as part of the rehost operation for this type
of license. Details on permission ticket, rehost
operations are provided further down in this
description clause.

PERMANENT LICENSE:
Permanent licenses are node locked licenses that have
no usage period associated with them. These licenses
are issued by Cisco's licensing portal. These licenses
need to be installed using management interfaces on
the device. Once these licenses are installed, they
will provide
needed permission for the feature/image
across different versions.

COUNTED LICENSE:
Counted licenses limit the number of similar entities
that can use the license. For example, a counted
license when used by a feature can limit the number
of IP phones that can connect or the number of tunnels
that can be created.

UNCOUNTED LICENSE:
Uncounted licenses do not limit the number of similar
entities that can use the licenses.

License can be enforced at the image level or at the feature
level and this MIB module supports both.

IMAGE LEVEL LICENSING:
A universal image that contains all levels of
software packages is loaded on to the device. At boot
time, the device determines the highest level of license
and brings up the appropriate software features or
subsystems.

FEATURE LEVEL LICENSING:
Feature level licensing will support enforcement of
license at individual feature. Features have to check
for their licenses before enabling themselves. If it
does not have a license, the feature should disable
itself.

There is a one-to-one relationship between
a feature and a license. That is, a feature can use
only one license at a time and a license can be used
by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters
arranged in a particular format that holds the license
for a single feature within it. A line has all the
necessary fields and attributes that make it a valid,
non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used
to install license on product. It has a user readable
part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated
by a licensed device. This document establishes the
identity of the device and proves that the sender/user
has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that
is installed on a device to be installed on other
similar device. As part of rehost operation, a device
processes the permission ticket, revokes the license(s)
on the device and generates a rehost ticket as the
proof of revocation. This rehost ticket needs to be
presented to the Cisco's licensing portal to get the
license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco
licensing portal that allows
a device to rehost its
licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after
it has applied a permission ticket. The rehost ticket
is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies
device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify the device
3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as

proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to

```
      identify the device uniquely. It is specified
as the index
      or one of the index for tables in this MIB as needed."
  REVISION        "201204190000Z"
  DESCRIPTION
      "This version of the MIB adds support for Permanent Right to use (RTU)
      licensing. The revisions are:
      o Updated clmgmtLicenseType object to support the following new
        types of license:
        permanentRightToUse

      The new module compliance is ciscoLicenseMgmtComplianceRev1."

  REVISION        "201104190000Z"
  DESCRIPTION
      "This version of the MIB adds support for Right to use (RTU)
      licensing. The revisions are:
      o Added RTU license definition to MIB description above.
      o Updated clmgmtLicenseType object to support the following new
        types of license:
        evalRightToUse
        rightToUse
      o Added following objects to clmgmtLicenseInfoTable
        clmgmtLicensePeriodUsed
      o Added following objects to clmgmtLicensableFeatureTable
        clmgmtFeaturePeriodUsed
       o Added the following notifications
        clmgmtLicenseEvalRTUTransitionWarning
        clmgmtLicenseEvalRTUTransition
      o Added the following conformance groups
        clmgmtLicenseRTUGroup
        clmgmtLicenseRTUUsageNotifGroup

      The new module compliance is ciscoLicenseMgmtComplianceRev1."
  REVISION        "200811210000Z"
  DESCRIPTION
      "This version of the MIB adds support for subscription
      licensing. Subscription licenses provide software
      enforcement for a licensed feature for a fixed calendar
      period. The revisions are:
      o Updated clmgmtLicenseType object to support the following three
        new types of licenses:
            paidSubscription
            evaluationSubscription
            extensionSubscription
      o Added following objects to clmgmtLicenseInfoTable
            clmgmtLicenseStartDate
            clmgmtLicenseEndDate
```

```
      o Added following
 objects to clmgmtLicensableFeatureTable
            clmgmtFeatureStartDate
            clmgmtFeatureEndDate
      o Added the following notifications
            clmgmtLicenseSubscriptionExpiryWarning
            clmgmtLicenseSubscriptionExtExpiryWarning
            clmgmtLicenseSubscriptionExpired
      o Added the following conformance groups
            clmgmtLicenseSubscriptionGroup
            clmgmtLicenseSubscriptionUsageNotifGroup
      The new module compliance is ciscoLicenseMgmtComplianceRev1."
  REVISION       "200610030000Z"
  DESCRIPTION
      "Initial version of this MIB module."
  ::= { ciscoMgmt 543 }


ciscoLicenseMgmtMIBNotifs  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation
 OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 4 }


ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION
  STATUS         current
  DESCRIPTION
      "A unique value, for each license in the managed system.
      It is not necessary to have values assigned contiguously.
      The value for each license must remain constant
      at least from one re-initialization of the entity's
```

network management system to the next re-initialization"
SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"This textual convention is an extension of the ClmgmtLicenseIndex convention. The latter defines a greater than zero value used to identify a license in the managed system.
This
extension permits the additional value of zero. The value zero is object-specific and must therefore be defined as part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown."
SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."
SYNTAX INTEGER {
none(1),
local(2),
tftp(3),
ftp(4),
rcp(5),
http(6),
scp(7),
sftp(8)
}

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"The state of license action execution.

none(1) - action is not yet scheduled to be executed.

pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.

```
    inProgress(3)          - action execution has started and is
                           in progress.

    successful(4)          - action has completed successfully.

    partiallySuccessful(5) - action has completed, but was
                           partially successful. Management
                           application can query additional MIB

                      objects to know what is successful
                           and what has failed. These addtional
                           objects are listed in the
                           description of the corresponding
                           action tables.

    failed(6)              - action has failed."
  SYNTAX         INTEGER  {
                    none(1),
                    pending(2),
                    inProgress(3),
                    successful(4),
                    partiallySuccessful(5),
                    failed(6)
                  }

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION
  STATUS         current
  DESCRIPTION
    "Reason for license action failure. Defines error codes for
    all the license actions.

    none(1)                  - action execution has not
                           started yet. If the action
                           is
 completed and the action
                           is successful, then also
                           none(1) is returned to
                           indicate that there are no
                           errors.
    generalFailure(2)          - General licensing failure.
                           This will be used for resource
                           unavailability failures.
                           Ex: Lack of memory.
    transferProtocolNotSupported(3) - protocol selected is not
                               supported.
    fileServerNotReachable(4) - file server is not reachable.
    unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
```

valid
invalidLicenseFilePath(6) - The license file path is not
accessible.
invalidLicenseFile(7) - Contents of license file are

not valid.
invalidLicenseLine(8) - License string in the license
file is not valid.
licenseAlreadyExists(9) - Management application is trying
to install a license that already
exists.
licenseNotValidForDevice(10) - This license is not valid for
the device/entPhysicalIndex
specified.
invalidLicenseCount(11) - Invalid count for this counted
license.
invalidLicensePeriod(12) - Validity period is invalid for
this expiring license.
licenseInUse(13) - License file is in use by a
feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is
no more space in the
license storage.
invalidPermissionTicketFile(16) - The permission ticket file
path is not accecssible.
invalidPermissionTicket(17) - The permission ticket file
contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is
not accessible.
invalidRehostTicket(19) - The rehost ticket file contents
are not valid.
invalidLicenseBackupFile(20) - License backup store path
is not accessible.
licenseClearInProgress(21) - When license clear action is
in progress, license backup
action is not permitted to
avoid race conditions. This

error code is sent back in
response to a license backup
action when a license clear
action is in progress or in
pending state. Try again in few
seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible."
SYNTAX INTEGER {
none(1),

```
                generalFailure(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidLicenseFilePath(6),
                invalidLicenseFile(7),
                invalidLicenseLine(8),
                licenseAlreadyExists(9),
                licenseNotValidForDevice(10),
                invalidLicenseCount(11),

              invalidLicensePeriod(12),
                licenseInUse(13),
                invalidLicenseStore(14),
                licenseStorageFull(15),
                invalidPermissionTicketFile(16),
                invalidPermissionTicket(17),
                invalidRehostTicketFile(18),
                invalidRehostTicket(19),
                invalidLicenseBackupFile(20),
                licenseClearInProgress(21),
                invalidLicenseEULAFile(22)
              }

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object contains appropriate value for
     clmgmtLicenseActionIndex that can be used to create
     an entry in clmgmtLicenseActionTable. The management application
     should read this object first and then use this as the
     value
 for clmgmtLicenseActionIndex to avoid collisions
     when creating entries in clmgmtLicenseActionTable.
     Following this approach does not guarantee collision free
     row creation, but will reduce the probability. The
     collision will happen if two management applications read this
     object at the same time and attempt to create an entry
     with this value at the same time. In this case, the
     management application whose request is processed after the first
     request will get an error and the process of reading this object
     and entry creation needs to be repeated."
  ::= { clmgmtLicenseConfiguration 1 }
-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE
```

SYNTAX SEQUENCE OF ClmgmtLicenseActionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table for invoking license management actions. Management application must create a row
in this table to trigger any of
the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of clmgmtLicenseAction for more information on what these actions do on the device.
Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."
::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE
SYNTAX ClmgmtLicenseActionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An
entry for each action that is being executed or was executed recently. The management application executes an action
by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method
   Management application sets clmgmtLicenseActionRowStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.
2. CREATE-AND-WAIT method
   Management application sets clmgmtLicenseActionRowStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid

values in more than one SNMP SET request. If SET request
for any of the objects fails, management application can
set
just only that object. Once all the required objects
are set to valid values, management application triggers
action
execution by setting clmgmtLicenseActionRowStatus to
active(1).

To stop the action from being executed, the management
application
can delete the entry by setting clmgmtLicenseActionRowStatus
to destroy(6) when clmgmtLicenseActionState is pending(2).

The status of action execution can be known by querying
clmgmtLicenseActionState. If the action is still in
pending(2) or in inProgress(3) state, the management
application need to check back again after few seconds.
Once the action completes and status of the action is
failed(6), the reason for failure can be retrieved
from clmgmtLicenseActionFailCause. If the status of the
action is partiallySuccessful(5), results of individual
licenses can be queried from clmgmtLicenseActionResultTable.

Not all objects in the entry are needed to execute every
action. Below is the list of actions and the required
objects that are needed to be set for executing that
action.

1. Installing a license
The following MIB objects need to be set for installing a
license
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicenseFile
g. clmgmtLicenseStore
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAcceptEULA
j. clmgmtLicenseAction

clmgmtLicenseActionEntPhysicalIndex need not be set
explicitly for license installs. License itself identifes
the device where the license needs to be installed.

clmgmtLicenseStore need

to be set to store the licenses
in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license
The following MIB objects need to be set for clearing a license
a. clmgmtLicenseActionEntPhysicalIndex
b. clmgmtLicenseActionLicenseIndex
c. clmgmtLicenseStore
d. clmgmtLicenseAction

3. Revoking a license
The following MIB objects need to be set for revoking a license
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicensePermissionTicketFile
g. clmgmtLicenseRehostTicketFile
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAction

4. Regenerate last rehost ticket
The following MIB objects need to be set for regenerating last rehost ticket
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicensePermissionTicketFile
g. clmgmtLicenseRehostTicketFile
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAction

5. Save all licenses to a backup storage
The following MIB objects need to be set for storing all licenses to a backup store
a. clmgmtLicenseActionEntPhysicalIndex
b. clmgmtLicenseActionTransferProtocol

c. clmgmtLicenseServerAddressType
d. clmgmtLicenseServerAddress
e. clmgmtLicenseServerUsername
f. clmgmtLicenseServerPassword
g. clmgmtLicenseBackupFile
h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.
The following MIB objects need to be set exporting required EULAs
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicenseFile
g. clmgmtLicenseEULAFile
h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.
a. clmgmtLicenseServerAddressType

b. clmgmtLicenseServerAddress
c. clmgmtLicenseServerUsername
d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."
INDEX { clmgmtLicenseActionIndex }
::= { clmgmtLicenseActionTable 1 }

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex            Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType      InetAddressType,
    clmgmtLicenseServerAddress          InetAddress,
    clmgmtLicenseServerUsername         SnmpAdminString,
    clmgmtLicenseServerPassword         SnmpAdminString,
    clmgmtLicenseFile                   SnmpAdminString,
    clmgmtLicenseStore                  Unsigned32,
    clmgmtLicenseActionLicenseIndex
   ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile   SnmpAdminString,
    clmgmtLicenseRehostTicketFile       SnmpAdminString,
```

```
    clmgmtLicenseBackupFile            SnmpAdminString,
    clmgmtLicenseStopOnFailure         TruthValue,
    clmgmtLicenseAction                INTEGER,
    clmgmtLicenseActionState           ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition          Unsigned32,
    clmgmtLicenseActionFailCause       ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType     StorageType,
    clmgmtLicenseActionRowStatus       RowStatus,
    clmgmtLicenseAcceptEULA            TruthValue,
    clmgmtLicenseEULAFile              SnmpAdminString
}

clmgmtLicenseActionIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This object uniquely identifies a row in
     clmgmtLicenseActionTable.
 The management application should choose
     this value by reading clmgmtNextFreeLicenseActionIndex
     while creating an entry in this table. If an entry already
     exists with this index, the creation of the entry will not
     continue and error will be returned. The management application
     should read the value of clmgmtNextFreeLicenseActionIndex
     again and retry with the new value for this object."
  ::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE
  SYNTAX        PhysicalIndexOrZero
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object represents the entPhysicalIndex of the device
     where the action is being executed. This object is mainly
     used in devices where one device is acting as a master and
     rest of the devices as slaves. The master device is
     responsible for SNMP communication with the management
     application. Examples
 include stackable switches, devices
     with route processor and line card configuration. If this
     object is not set, the license action will be executed on
     the master device. Note: This object need not be set if
     there is a stand alone device"
  DEFVAL        { 0 }
  ::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE
```

```
  SYNTAX        ClmgmtLicenseTransferProtocol
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object represents the transfer protocol to be used
     when copying files as specified in the following objects.
     1. clmgmtLicenseFile
     2. clmgmtLicensePermissionTicketFile
     3. clmgmtLicenseRehostTicketFile
     4. clmgmtLicenseBackupFile

     Note: This object need not be set if the all the files
     required for the action are in device's local file system."
  DEFVAL        { none }
  ::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType
 OBJECT-TYPE
  SYNTAX        InetAddressType
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the transport type of the
     address contained in clmgmtLicenseServerAddress object.
     This must be set when clmgmtLicenseActionTransferProtocol
     is not none(1) or local(2)."
  DEFVAL        { unknown }
  ::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE
  SYNTAX        InetAddress
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the ip address of the server from
     which the files must be read or written to if
     clmgmtLicenseActionTransferProtocol is not none(1) or
     local(2).

     All bits as 0s or 1s for clmgmtLicenseServerAddress are not
     allowed.

     The format of this address depends on the value of the
     clmgmtLicenseServerAddressType object"
  DEFVAL
       { "" }
  ::= { clmgmtLicenseActionEntry 5 }
```

```
clmgmtLicenseServerUsername OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the remote user name for accessing
     files via ftp, rcp, sftp or scp protocols. This object must
     be set when the clmgmtLicenseActionTransferProtocol is
     ftp(4), rcp(5), scp(7) or sftp(8). If
     clmgmtLicenseActionTransferProtocol is rcp(5), the remote
     username is sent as the server username in an rcp command
     request sent by the system to a remote rcp server."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the password used by ftp, sftp or
     scp for copying a file to/from
 an ftp/sftp/scp server.
     This object must be set when the
     clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
     or sftp(8). Reading it returns a zero-length string for
     security reasons."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object represents the location of the license file
     on the server identified by clmgmtLicenseServerAddress. This
     object MUST be set to a valid value before or concurrently
     with setting the value of the clmgmtLicenseAction object to
     install(2). For other operations, the value of this
     object is not considered, it is irrelevant."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE
  SYNTAX        Unsigned32
  MAX-ACCESS    read-create
```

```
 STATUS         current
  DESCRIPTION
     "This object represents the clmgmtLicenseStoreIndex of the
     license store to use within the device. The license store
     can be a local disk or flash. A device can have more than
     one license stores. If this object is not set, the license
     will be stored in the default license store as exposed by
     clmgmtDefaultLicenseStore object."
  DEFVAL         { 0 }
  ::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE
  SYNTAX         ClmgmtLicenseIndexOrZero
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the the license index of the license
     that is the subject of this action. This is used for
     identifying a license for performing actions specific to
     that license. This object need to be set only if
     clmgmtLicenseAction is set to clear(4). The value of this
     object is same as the clmgmtLicenseIndex
 object in
     clmgmtLicenseInfoEntry for license that is subject of this
     action."
  DEFVAL         { 0 }
  ::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the file name of the permission
     ticket. This object need to be set only if
     clmgmtLicenseAction is set to processPermissionTicket(4)
     or regenerateLastRehostTicket(5) actions. The permission
     ticket is obtained from Cisco licensing portal to revoke
     a license. The management application must set this object
     to valid value before invoking the action."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS         current
```

```
    DESCRIPTION
      "This object indicates the file where the rehost ticket
      generated by the device need to be exported to. The rehost
      ticket is generated as a result of processPermissionTicket
      and regenerateLastRehostTicket actions. After generating
      the rehost ticket, the device exports the rehost ticket
      contents to this file. This object need to be set only
      if clmgmtLicenseAction is set to processPermissionTicket(4)
      or regenerateLastRehostTicket(5) actions."
    DEFVAL        { "" }
    ::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE
    SYNTAX        SnmpAdminString (SIZE  (0..255))
    MAX-ACCESS    read-create
    STATUS        current
    DESCRIPTION
      "This object indicates the file where all the licenses in
      the device need to be backed up. This object need to be set
      only if clmgmtLicenseAction is set to backup(6) and the
      management application must set the
   value of this  object
      to valid value before invoking action."
    DEFVAL        { "" }
    ::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-create
    STATUS        current
    DESCRIPTION
      "This object indicates whether the license action should
      stop if the action on a license fails. This object is
      applicable only if there are more than one licenses
      involved in an action."
    DEFVAL        { false }
    ::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE
    SYNTAX        INTEGER  {
                    noOp(1),
                    install(2),
                    clear(3),
                    processPermissionTicket(4),
                    regenerateLastRehostTicket(5),
                    backup(6),
                    generateEULA(7)
                  }
```

```
  MAX-ACCESS      read-create
  STATUS
 current
  DESCRIPTION
     "This object indicates the the command/action to be executed.

     Command                    Remarks
     -------                   -------
     noOp(1)                     No operation will be
                               performed.

     install(2)                  Installs the license.

     clear(3)                    Clears the license.

     processPermissionTicket(4)     Processes thee permission
                               ticket and generates and
                               exports rehost ticket.

     regenerateLastRehostTicket(5)  Generates and exports the
                               last generated rehost
                               ticket.

     backup(6)                   Backs up all the licenses
                               installed currently onto a
                               backup store.

     generateEULA(7)
          Checks whether the licenses
                               in the license file need EULA
                               acceptance and uploads the
                               needed EULA contents to a file."
  DEFVAL         { noOp }
  ::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE
  SYNTAX         ClmgmtLicenseActionState
  MAX-ACCESS      read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the state of this license action."
  ::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS      read-only
  STATUS         current
  DESCRIPTION
```

"This object represents the position of the action
in the license action job queue that is maintained
internally. Only actions in pending(2) state will
be put in the queue until they are executed. By
reading this object, the management
application can make
intelligent decision on whether to execute another
action that it is planning on. For example, if there
is already a license clear action in the queue in
pending(2) state, management application can choose to
defer its license back up action to a later time. This
object will return a value of 0 if the action is not in
pending(2) state."
::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE
SYNTAX ClmgmtLicenseActionFailCause
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the reason for this license action
failure. The value of this object is valid only when
clmgmtLicenseActionState is failed(6)."
::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row."
DEFVAL { volatile }
::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtLicenseConfigCommandStatus is set to a value
other than inProgress(3)). Once the action completes
the only operation possible after this is to delete

```
      the row. It is recommended that the management application
      should delete entries in this table after reading
      the result. In order to prevent old entries from
      clogging the table, entries
 will be aged out, but an
      entry will never be deleted within 5 minutes of
      completion"
  ::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
      "This object indicates whether the End User License Agreement
      needed for installing the licenses is accepted.

      true(1) - EULA is read and accepted
      false(2) - EULA is not accepted

      Management application should set this object to true(1) when
      installing licenses that need EULA acceptance."
  DEFVAL         { false }
  ::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
      "This object indicates the file where all the End User License
      Agreements (EULAs) need to be exported to. This object need
 to
      be set only if clmgmtLicenseAction is set to generateEULA(7) and
      the management application must set the value of this object to
      valid value before invoking action."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 22 }


-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF ClmgmtLicenseActionResultEntry
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
      "This table contains results of license action if the
```

```
      license action involves multiple licenses. Entries in this
      table are not created for actions where there is
      only license that is subject of the action. For
      example, if there are 3 licenses in a license file
      when executing license install action, 3 entries will
      be created in this table, one for each license."
   ::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE
   SYNTAX
         ClmgmtLicenseActionResultEntry
   MAX-ACCESS      not-accessible
   STATUS          current
   DESCRIPTION
      "An entry in clmgmtLicenseActionResultTable. Each entry
      contains result of the action for a single license.
      These entries are created immediately after action
      execution when the action involves multiple licenses.
      These entries get automatically deleted when the
      corresponding entry in clmgmtLicenseActionTable
      is deleted."
   INDEX           {
                     clmgmtLicenseActionIndex,
                     clmgmtLicenseNumber
                   }
   ::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
      clmgmtLicenseNumber              Unsigned32,
      clmgmtLicenseIndivActionState    ClmgmtLicenseActionState,
      clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}

clmgmtLicenseNumber OBJECT-TYPE
   SYNTAX          Unsigned32 (1..4294967295)
    MAX-ACCESS      not-accessible
   STATUS          current
   DESCRIPTION
      "This object indicates the sequence number of this license
      in the list of licenses on which the action is executed.
      For example, if there are 3 licenses in a license file
      when executing license install action, this object will
      have values 1, 2 and 3 respectively as ordered in the
      license file."
   ::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE
   SYNTAX          ClmgmtLicenseActionState
```

```
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates the state of action on this
     individual license."
  ::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
  SYNTAX          ClmgmtLicenseActionFailCause
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates the reason for action failure
 on this
     individual license"
  ::= { clmgmtLicenseActionResultEntry 3 }


-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF ClmgmtLicenseStoreInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This table contains information about all the license
     stores allocated on the device."
  ::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE
  SYNTAX          ClmgmtLicenseStoreInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in clmgmtLicenseStoreInfoTable. Each entry
     contains information about a license store allocated
     on the device"
  INDEX           {
                    entPhysicalIndex,
                    clmgmtLicenseStoreIndex
                  }
  ::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
     clmgmtLicenseStoreIndex
       Unsigned32,
     clmgmtLicenseStoreName          SnmpAdminString,
     clmgmtLicenseStoreTotalSize     Unsigned32,
```

```
      clmgmtLicenseStoreSizeRemaining Unsigned32
}

clmgmtLicenseStoreIndex OBJECT-TYPE
  SYNTAX         Unsigned32 (1..4294967295)
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "This object uniquely identifies a license store within
     the device."
  ::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the name of the license store
     within the device. It is a file in device's local file
     system i.e., either on a local disk or flash or some
     other storage media. For example, the value of this
     object can be 'disk1:lic_store_1.txt' or
     'flash:lic_store_2.txt"
  ::= { clmgmtLicenseStoreInfoEntry
 2 }

clmgmtLicenseStoreTotalSize OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "bytes"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the total number of bytes that are
     allocated to the license store."
  ::= { clmgmtLicenseStoreInfoEntry 3 }

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "bytes"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the number of bytes still remaining
     to be used for new license installations in the license
     store."
  ::= { clmgmtLicenseStoreInfoEntry 4 }
```

```
-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicenseDeviceInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This table contains objects that provide licensing related
     information
 at the device level. Entries will exist
     only for entities that support licensing. For example,
     if it is a stand alone device and supports licensing,
     then there will be only one entry in this table. If
     it is stackable switch then there will be multiple
     entries with one entry for each device in the stack."
  ::= { clmgmtLicenseInformation 2 }

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicenseDeviceInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "An entry in clmgmtLicenseDeviceInfoTable. Each entry
     contains device level licensing information for a device."
  INDEX         { entPhysicalIndex }
  ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
     clmgmtDefaultLicenseStore Unsigned32
}

clmgmtDefaultLicenseStore OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    read-only
  STATUS
   current
  DESCRIPTION
     "This object indicates the clmgmtLicenseStoreIndex of
     default store in the device. There will be only one
     default license store per device. If no license store
     is specified during license install, this default license
     store will be used."
  ::= { clmgmtLicenseDeviceInfoEntry 1 }


-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
```

```
  SYNTAX          SEQUENCE OF ClmgmtLicenseInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "This table contains information about all the licenses
     installed on the device."
  ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
  SYNTAX          ClmgmtLicenseInfoEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
     "An entry in clmgmtLicenseInfoTable. Each entry contains
     information about a license installed on the device. This
     entry gets created when
 a license is installed successfully.
     Management application can not create these entries directly, but
     will do so indirectly by executing license install action.
     Some of these entries may already exist that correspond to
     demo licenses even before management application installs any
     licenses."
  INDEX           {
                    entPhysicalIndex,
                    clmgmtLicenseStoreUsed,
                    clmgmtLicenseIndex
                  }
  ::= { clmgmtLicenseInfoTable 1 }

ClmgmtLicenseInfoEntry ::= SEQUENCE {
     clmgmtLicenseStoreUsed              Unsigned32,
     clmgmtLicenseIndex                ClmgmtLicenseIndex,
     clmgmtLicenseFeatureName            SnmpAdminString,
     clmgmtLicenseFeatureVersion         SnmpAdminString,
     clmgmtLicenseType                 INTEGER,
     clmgmtLicenseCounted                TruthValue,
     clmgmtLicenseValidityPeriod         Unsigned32,
      clmgmtLicenseValidityPeriodRemaining Unsigned32,
     clmgmtLicenseExpiredPeriod          Unsigned32,
     clmgmtLicenseMaxUsageCount          Unsigned32,
     clmgmtLicenseUsageCountRemaining    Unsigned32,
     clmgmtLicenseEULAStatus             TruthValue,
     clmgmtLicenseComments               SnmpAdminString,
     clmgmtLicenseStatus               INTEGER,
     clmgmtLicenseStartDate              DateAndTime,
     clmgmtLicenseEndDate                DateAndTime,
     clmgmtLicensePeriodUsed             Unsigned32
}
```

```
clmgmtLicenseStoreUsed OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This object represents the license store that is used for
     storing this license. This object will have the same value
     as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
     of the license store used."
  ::= { clmgmtLicenseInfoEntry
 1 }

clmgmtLicenseIndex OBJECT-TYPE
  SYNTAX        ClmgmtLicenseIndex
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This object uniquely identifies a license within
     the device."
  ::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the name of the feature that is
     using or can use this license. A license can be used by
     only one feature. Examples of feature name are: 'IPBASE',
     'ADVIPSERVICE'."
  ::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the version of the feature that is
     using or can use this license. Examples of feature version
      are: '1.0', '2.0'"
  ::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE
  SYNTAX        INTEGER  {
                  demo(1),
                  extension(2),
                  gracePeriod(3),
```

```
            permanent(4),
            paidSubscription(5),
            evaluationSubscription(6),
            extensionSubscription(7),
            evalRightToUse(8),
            rightToUse(9),
            permanentRightToUse(10)
          }
MAX-ACCESS     read-only
STATUS         current
DESCRIPTION
   "This object identifies type of license. Licenses may have
   validity period defined in terms of time duration that the
   license is valid for or it may be defined in terms of actual
   calendar dates. Subscription licenses are licenses that have
   validity period defined in terms of calendar dates.

   demo(1)
        - demo(evaluation license) license.
   extension(2)         - Extension(expiring) license.
   gracePeriod(3)       - Grace period license.
   permanent(4)         - permanent license, the license has no
                        expiry date.
   paidSubscription(5)   - Paid subscription licenses are the
   licenses
                        which are purchased by customers. These
                        licenses have a start date  and end date
                        associated with them.
   evaluationSubscription(6)-Evaluation subscription licenses are
                         the trial licenses. These licenses
                         are node locked and it can be obtained
                         only once for an UDI. They are valid
                         based on calendar days. These licenses
                         have a start date and an end date

                    associated with them and are issued
                         once per UDI.
   extensionSubscription(7)- Extension subscription licenses are
                         similar to evaluation subscription
                         licenses but these licenses are issued
                         based on customer request. There are
                         no restrictions on the number of
                         licenses available for a UDI.
   evalRightToUse(8)       - Evaluation Right to use (RTU)
   license.
   rightToUse(9)          - Right to use (RTU) license.
   permanentRightToUse(10) ? Right To Use license right after it is configured
                         and is valid for the lifetime of the product.
```

This is a Right To Use license which is not in
evaluation mode for a limited time."

::=
{ clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates whether the license is counted
license.
true(1) - counted license
false(2) - uncounted license"
::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the time period the license is valid for.
This object is applicable only if clmgmtLicenseType is demo(1),
or extension(2) or gracePeriod(3) or evalRightToUse(8). The
object will return 0 for other license types."
::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS
current
DESCRIPTION
"This object indicates the time period remaining before the
license expires or transitions to rightToUse(9) license. This
object is applicable only if clmgmtLicenseType is demo(1), or
extension(2) or gracePeriod(3) or evalRightToUse(8). The object
will contain 0 for other license types."
::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS current

```
  DESCRIPTION
     "This object indicates the elapsed time period since the license
     expired. This object is applicable only if clmgmtLicenseType
     is demo(1), or extension(2) or gracePeriod(3). Also, this
     value of this object will be valid only after the license
     expires. The object will return 0 for other license types
     or before the license expiry."
  ::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount
 OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the maximum number of entities that
     can use this license. This object is applicable only if
     clmgmtLicenseCounted is true(1). The entity that is being
     counted can be anything and it depends on the licensable
     feature."
  ::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the number of entities that can
     still use this license. This object is applicable only
     if clmgmtLicenseCounted is true(1)."
  ::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates whether the user
 accepted
     End User License Agreement for this license.

     true(1)  - EULA accpeted
     false(2) - EULA not accepted"
  ::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-write
```

```
  STATUS        current
  DESCRIPTION
     "This object represents the user modifiable comments
     about the license. This object is initially populated
     with comments from the license file."
  ::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE
  SYNTAX        INTEGER  {
                  inactive(1),
                  notInUse(2),
                  inUse(3),
                  expiredInUse(4),
                  expiredNotInUse(5),
                  usageCountConsumed(6)
                }
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object represents status of the license.

      inactive(1)          - license is installed, but
                           not active.
     notInUse(2)           - license is installed and
                           available for use.
     inUse(3)              - the license is being used (by
                           a feature).
     expiredInUse(4)       - license is expired but still
                           being held by the feature.
     expiredNotInUse(5)    - license is expired and not being
                           held by any feature.
     usageCountConsumed(6) - number of entities using this
                           licenses has reached the allowed
                           limit, no new entities are allowed
                           to use this license."
  ::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE
  SYNTAX        DateAndTime
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object
 indicates the start date for a subscription
     license. It is optional for subscription linceses to have a
     start date associated with them, they may only have an end
     date associated with them. This object may be applicable only
     when clmgmtLicenseType is paidSubscription(5),
```

```
      evaluationSubscription(6) or extensionSubscription (7).
      The object will contain an octet string of length 0 when it is
      not applicable."
   ::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE
   SYNTAX         DateAndTime
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the end date for a subscription license.
      This object is applicable only when clmgmtLicenseType is
      paidSubscription(5), evaluationSubscription(6) or
      extensionSubscription (7). The object will contain an octet
      string of length 0 when it is not applicable."
   ::= { clmgmtLicenseInfoEntry
  16 }

clmgmtLicensePeriodUsed OBJECT-TYPE
   SYNTAX         Unsigned32
   UNITS          "seconds"
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the time period used for the
      Right to use (RTU) licenses. This object is applicable for all
      RTU licenses."
   ::= { clmgmtLicenseInfoEntry 17 }


-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE
   SYNTAX         SEQUENCE OF ClmgmtLicensableFeatureEntry
   MAX-ACCESS     not-accessible
   STATUS         current
   DESCRIPTION
      "This table contains list of licensable features in the
      image. All the licensable features will have an entry each
      in this table irrespective of whether they are using any
      licenses currently. Entries in this table are created by
      the agent one for each licensable feature in the image.
      These entries remain in the table permanently and can not

   be deleted. Management application can not create or delete
      entries from this table."
   ::= { clmgmtLicenseInformation 4 }
```

```
clmgmtLicensableFeatureEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicensableFeatureEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "An entry in clmgmtLicensableFeatureTable. Each entry represents
    a licensable feature."
  INDEX         {
                  entPhysicalIndex,
                  clmgmtFeatureIndex
                }
  ::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {
    clmgmtFeatureIndex                Unsigned32,
    clmgmtFeatureName                 SnmpAdminString,
    clmgmtFeatureVersion              SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted        SnmpAdminString,
    clmgmtFeatureStartDate            DateAndTime,
    clmgmtFeatureEndDate
          DateAndTime,
    clmgmtFeaturePeriodUsed           Unsigned32
}

clmgmtFeatureIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "This object uniquely identifies a licensable feature in
    the device."
  ::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'"
  ::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..32))
  MAX-ACCESS    read-only
  STATUS        current
```

```
  DESCRIPTION
     "This object indicates the version of the licensable
     feature in the device. Examples
 of feature versions
     are: '1.0' or '2.0'"
  ::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the time period remaining before
     the feature's license expires or transitions. This object is
     applicable only if clmgmtLicenseType of the license used by
     this feature is demo(1), or extension(2) or gracePeriod(3) or
     evalRightToUse(8).

     The object will contain 0 if other types of license is used
     or if the feature does not use any license. If the
     feature is using multiple licenses, this period will
     represent the cumulative period remaining from all the
     licenses used by this feature."
  ::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE
 (0..128))
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object represents the entity that is being counted
     by this feature. Examples of entities are IP Phones, number
     of sessions etc. This object is only applicable for
     features that use counting licenses. For other features,
     this object will return empty string."
  ::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE
  SYNTAX         DateAndTime
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the license start date of the feature.
     This object is applicable if at least one of the licenses used
     for this feature has a valid start date. The start date will
     be the earliest of the valid start dates of all the licenses
```

used for this feature. If none of the licenses used for this
feature have a valid start date then this object will contain an

octet string of length 0."
::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the license end date of the feature.
This object is applicable if at least one of the licenses used
for this feature has a valid end date. The end date will
be the latest of the valid end dates of all the licenses
used for this feature. If none of the licenses used for this
feature have a valid end date then this object will contain an
octet string of length 0."
::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the license period used for the feature."
::= { clmgmtLicensableFeatureEntry 8 }

--
MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object contains appropriate value for
clmgmtDevCredExportActionIndex that can be used to create
an entry in clmgmtDevCredExportActionTable. The management
application should read this object first and then use this
as the value for clmgmtDevCredExportActionIndex to avoid
collisions when creating entries in
clmgmtDevCredExportActionTable. Following this approach does
not guarantee collision free row creation, but will reduce
the probability. The collision will happen if two

```
      management applications read this object at the same time and
      attempt to create an entry with this value at the same time.
      In this case, the management application whose request is
      processed after the first request
 will get an error and the
      process of reading this object and entry creation needs to be
      repeated."
  ::= { clmgmtLicenseDeviceInformation 1 }
-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtDevCredExportActionEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "A table for triggering device credentials export action.
     Management application must create this entry to trigger the
     export of device credentials from the device to a file.

     Once the request completes, the management application should
     retrieve the values of the objects of interest, and then
     delete the entry.  In order to prevent old entries from
     clogging the table, entries will be aged out, but an entry
     will never be deleted within 5 minutes of completion."
  ::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry
 OBJECT-TYPE
  SYNTAX        ClmgmtDevCredExportActionEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "An entry for each device credential export action that
     is being executed or was executed recently. The management
     application triggers the export by creating an entry in this
     table. This can be done in the following 2 methods

     1. CREATE-AND-GO method
        Management application sets clmgmtDevCredExportActionStatus
        to createAndGo(4) and all other required objects to valid
        values in a single SNMP SET request. If all the values
        are valid, the device creates the entry and executes the
        action. If the SET request fails, the entry will not be
        created.
     2. CREATE-AND-WAIT method
        Management application sets clmgmtDevCredExportActionStatus to
        createAndWait(5) to create an entry. Management application
```

```
            can set all other required objects to valid
            values in more than one SNMP SET request. If SET request
            for any of the objects fails, management application can set
            just only that object. Once all the required objects
            are set to valid values, management application triggers action
            execution by setting clmgmtDevCredExportActionStatus to
            active(1).

        To stop the action from being executed, the management application
        can delete the entry by setting clmgmtDevCredExportActionStatus
        to destroy(6) when clmgmtDevCredCommandState is pending(2).

        The status of action execution can be known by querying
        clmgmtDevCredCommandState. If the action is still in
        pending(2) or inProgress(3), the management application need to
        check back again after few seconds. Once the action completes
        and if status of the action is failed(6), the reason for
        failure can
    be retrieved from clmgmtDevCredCommandFailCause.

        Entry can be deleted except when clmgmtLicenseAction is set
        to inProgress(3). All entries in this table are volatile
        and are cleared on agent reset."
      INDEX           { clmgmtDevCredExportActionIndex }
      ::= { clmgmtDevCredExportActionTable 1 }

    ClmgmtDevCredExportActionEntry ::= SEQUENCE {
        clmgmtDevCredExportActionIndex Unsigned32,
        clmgmtDevCredEntPhysicalIndex  PhysicalIndexOrZero,
        clmgmtDevCredTransferProtocol  ClmgmtLicenseTransferProtocol,
        clmgmtDevCredServerAddressType InetAddressType,
        clmgmtDevCredServerAddress     InetAddress,
        clmgmtDevCredServerUsername    SnmpAdminString,
        clmgmtDevCredServerPassword    SnmpAdminString,
        clmgmtDevCredExportFile        SnmpAdminString,
        clmgmtDevCredCommand           INTEGER,
        clmgmtDevCredCommandState      ClmgmtLicenseActionState,
        clmgmtDevCredCommandFailCause  INTEGER,
        clmgmtDevCredStorageType
        StorageType,
        clmgmtDevCredRowStatus         RowStatus
    }

    clmgmtDevCredExportActionIndex OBJECT-TYPE
      SYNTAX          Unsigned32 (1..4294967295)
      MAX-ACCESS      not-accessible
      STATUS          current
      DESCRIPTION
```

"This object uniquely identifies a row in
clmgmtDevCredExportActionTable. The management application
chooses this value by reading
clmgmtNextFreeDevCredExportActionIndex while creating an
entry in this table. If an entry already exists with this
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object."
::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE
SYNTAX PhysicalIndexOrZero
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object represents the entPhysicalIndex of the device
for which the device credentials are being retrieved. This
object is mainly used in devices where one device is acting
as a master and rest of the devices as slaves. The master
device is responsible for SNMP communication with the
manager. Examples include stackable switches, devices with
router processor and line cards.

Note: This object need not be set if it is a stand alone
device"
DEFVAL { 0 }
::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE
SYNTAX ClmgmtLicenseTransferProtocol
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the transfer protocol to be used when
copying files as specified in the following objects.
1. clmgmtDevCredExportFile
."
DEFVAL { none }
::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the transport type of the

```
      address contained in clmgmtDevCredServerAddress object.
      This must be set when clmgmtDevCredTransferProtocol
      is not none(1) or local(2)."
    DEFVAL         { unknown }
    ::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE
    SYNTAX         InetAddress
    MAX-ACCESS     read-create
    STATUS         current
    DESCRIPTION
      "This object indicates the the ip address of the server
      from which the files must be read or written to if
      clmgmtDevCredTransferProtocol is not none(1) or local(2).

      All bits as 0s or 1s for clmgmtDevCredServerAddress are not
      allowed.

      The format of this address depends on the value of the
      clmgmtDevCredServerAddressType
   object"
    DEFVAL         { "" }
    ::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE
    SYNTAX         SnmpAdminString (SIZE  (0..96))
    MAX-ACCESS     read-create
    STATUS         current
    DESCRIPTION
      "This object indicates the remote user name for accessing
      files via ftp, rcp, sftp or scp protocols. This object
      must be set when the clmgmtDevCredTransferProtocol is
      ftp(4), rcp(5), scp(7) or sftp(8). If
      clmgmtDevCredTransferProtocol is rcp(5), the remote
      username is sent as the server username in an rcp command
      request sent by the system to a remote rcp server."
    DEFVAL         { "" }
    ::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE
    SYNTAX         SnmpAdminString (SIZE  (0..96))
    MAX-ACCESS     read-create
    STATUS         current
    DESCRIPTION
      "This object indicates the password used by ftp, sftp or
      scp for copying
   a file to/from an ftp/sftp/scp server.
      This object must be set when the
```

```
    clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
    sftp(8). Reading it returns a zero-length string for
    security reasons."
  DEFVAL        { "" }
  ::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "This object represents file where device credentials needs
    to be exported to."
  ::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE
  SYNTAX        INTEGER  {
                  noOp(1),
                  getDeviceCredentials(2)
                }
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "This object indicates the the command to be executed.

    Command                     Remarks
    -------
          -------
    noOp(1)                     No operation will be
                              performed.

    getDeviceCredentials(2)     Exports device credentials"
  DEFVAL        { noOp }
  ::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE
  SYNTAX        ClmgmtLicenseActionState
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
    "This object indicates the state of the action that is
    executed as a result of setting clmgmtDevCredRowStatus
    to active(1)."
  ::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE
  SYNTAX        INTEGER  {
                  none(1),
```

```
                unknownError(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidFile(6)

    }
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
    "This object indicates the the reason for device
    credentials export operation failure.

    The value of this object is valid only when
    clmgmtDevCredCommandState is failed(6).

    none(1)         - action execution has not started yet.
                    If the action is completed and the
                    action is successful, then also
                    none(1) is returned to indicate that
                    there are no errors.
    unknownError(2) - reason for failure is unknown,
                    operation failed, no operation is
                    performed
    transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
                                given is not supported.
    fileServerNotReachable(4)       - file server is not reachable.
    unrecognizedEntPhysicalIndex(5) - entPhysicalIndex
 is not
                                valid
    invalidFile(6)  - The target file specified is not valid."
  ::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE
  SYNTAX          StorageType
  MAX-ACCESS      read-create
  STATUS          current
  DESCRIPTION
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row."
  DEFVAL          { volatile }
  ::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE
  SYNTAX          RowStatus
  MAX-ACCESS      read-create
  STATUS          current
```

```
  DESCRIPTION
      "This object indicates the the status of this table entry.
      Once the entry status is set to active(1), the associated
      entry cannot be modified until the action completes
      (clmgmtDevCredCommandStatus is set to a value
      other than
 inProgress(3)). Once the action completes
      the only operation possible after this is to delete
      the row.

      clmgmtDevCredExportFile is a mandatory object to be
      set when creating this entry."
  ::= { clmgmtDevCredExportActionEntry 13 }



-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
      "This object indicates whether the device should generate
      the notifications related to usage of licenses. This object
      enables/disables sending following notifications:
          clmgmtLicenseExpired
          clmgmtLicenseExpiryWarning
          clmgmtLicenseUsageCountExceeded
          clmgmtLicenseUsageCountAboutToExceed
          clmgmtLicenseSubscriptionExpiryWarning
          clmgmtLicenseSubscriptionExtExpiryWarning
          clmgmtLicenseSubscriptionExpired
          clmgmtLicenseEvalRTUTransitionWarning
           clmgmtLicenseEvalRTUTransition"
  DEFVAL         { true }
  ::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
      "This object indicates whether the device should generate
      notifications related to license deployment. This object
      enables/disables sending following notifications:
          clmgmtLicenseInstalled
          clmgmtLicenseCleared
```

```
        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted"
  DEFVAL        { true }
  ::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION
     "This object indicates whether the device should generate
     notifications related to error conditions in enforcing
     licensing. This object
 enables/disables sending following
     notifications:
        clmgmtLicenseNotEnforced"
  DEFVAL        { true }
  ::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent, when a feature license
     expires. This notification will be sent continuously
     every week even after the expiry to alert the management
     application."
  ::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion,
                  clmgmtFeatureValidityPeriodRemaining
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent when a license is about to

     expire. This notification will go out multiple times.
      First notification goes out when expiry day is 4 weeks
      ahead, second notification when expiry day is 3 weeks
      ahead, third notification when expiry day is 2 weeks
```

```
      ahead. This notification will go out daily in the
      last week of license expiry."
   ::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE
   OBJECTS        {
                    clmgmtLicenseFeatureName,
                    clmgmtLicenseFeatureVersion,
                    clmgmtLicenseMaxUsageCount,
                    clmgmtFeatureWhatIsCounted,
                    clmgmtLicenseComments
                  }
   STATUS         current
   DESCRIPTION
      "This notification is sent when clmgmtLicenseUsageCountRemaining
      has reached clmgmtLicenseMaxUsageCount for a counting license."
   ::= { ciscoLicenseMgmtMIBNotifs 3 }

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE
    OBJECTS        {
                    clmgmtLicenseFeatureName,
                    clmgmtLicenseFeatureVersion,
                    clmgmtLicenseMaxUsageCount,
                    clmgmtLicenseUsageCountRemaining,
                    clmgmtFeatureWhatIsCounted,
                    clmgmtLicenseComments
                  }
   STATUS         current
   DESCRIPTION
      "This notification is sent when clmgmtLicenseUsageCountRemaining
      has reached 80% of clmgmtLicenseMaxUsageCount for a counting
      license. This is a warning notification to the management
      application that very soon the maximum count will be reached
      and after that the device will not allow new entities to
      make use of this license."
   ::= { ciscoLicenseMgmtMIBNotifs 4 }

clmgmtLicenseInstalled NOTIFICATION-TYPE
   OBJECTS        {
                    clmgmtLicenseFeatureName,
                    clmgmtLicenseFeatureVersion,

                  clmgmtLicenseType,
                    clmgmtLicenseComments
                  }
   STATUS         current
   DESCRIPTION
      "This notification is sent when a license is installed
```

```
    successfully."
  ::= { ciscoLicenseMgmtMIBNotifs 5 }

clmgmtLicenseCleared NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtLicenseFeatureName,
                  clmgmtLicenseFeatureVersion,
                  clmgmtLicenseType,
                  clmgmtLicenseComments
                }
  STATUS        current
  DESCRIPTION
    "This notification is sent when a license is cleared
    successfully."
  ::= { ciscoLicenseMgmtMIBNotifs 6 }

clmgmtLicenseRevoked NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtLicenseFeatureName,
                  clmgmtLicenseFeatureVersion,
                  clmgmtLicenseType,
                  clmgmtLicenseComments
                }
  STATUS
      current
  DESCRIPTION
    "This notification is sent when a license is revoked
    successfully."
  ::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
    "This notification is sent when a user accepts End User
    License Agreement (EULA) for a license."
  ::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
```

```
      "This notification is sent when a license does not
      exist for a feature, but the feature is a mandatory
      feature and it should run. This notification will be
      sent out periodically to indicate that there is no

 license installed for this feature and it needs to
      be done as soon as possible."
  ::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE
   OBJECTS        {
                    clmgmtFeatureName,
                    clmgmtFeatureVersion,
                    clmgmtFeatureEndDate
                  }
   STATUS         current
   DESCRIPTION
      "This notification is sent when a subscription license of a
      feature is about to expire. This notification will be sent as
      per the following schedule:
      Once a week for the last eight weeks
      Once a day for the last week
      Once a hour for the last day"
  ::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE
   OBJECTS        {
                    clmgmtFeatureName,
                    clmgmtFeatureVersion,
                    clmgmtFeatureEndDate
                  }
   STATUS
  current
   DESCRIPTION
      "This notification is sent when the subscription license end
      date of a feature is reached but extension period is left. This
      notification will be sent once a day after the license end date
      is reached."
  ::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE
   OBJECTS        {
                    clmgmtFeatureName,
                    clmgmtFeatureVersion,
                    clmgmtFeatureEndDate
                  }
   STATUS         current
   DESCRIPTION
```

```
      "This notification will be sent after a subscription license
      of a feature completely expires. It will be sent once a day
      after the license has completely expired"
  ::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion,
                  clmgmtFeatureValidityPeriodRemaining
                }
  STATUS        current
  DESCRIPTION
      "This notification is sent when Evaluation to Right to use (RTU)
      license transition is about to happen. The first notification
      will be sent 10 days before the transition and second
      notification will be sent 5 days before the transition."
  ::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
      "This notification is sent, when a feature license transitions
      from a evaluation to a Right to use (RTU) license."
  ::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

ciscoLicenseMgmtCompliances  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBConform 2 }


ciscoLicenseMgmtCompliance
 MODULE-COMPLIANCE
  STATUS        deprecated
  DESCRIPTION
      "Compliance statement for Cisco license mgmt MIB."
  MODULE        -- this module
  MANDATORY-GROUPS {
                  clmgmtLicenseDeploymentGroup,
                  clmgmtLicenseDeviceInformationGroup,
                  clmgmtLicenseInformationGroup,
```

```
                clmgmtLicensableFeatureInformationGroup,
                clmgmtLicenseDevCredGroup,
                clmgmtLicenseNotificationEnableGroup,
                clmgmtLicenseUsageNotifGroup,
                clmgmtLicenseDeploymentNotifGroup,
                clmgmtLicenseErrorNotifGroup
            }

    GROUP       clmgmtLicenseStoreInformationGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license stores are supported."
    ::= { ciscoLicenseMgmtCompliances 1 }

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
     STATUS      current
    DESCRIPTION
        "Compliance statement for Cisco license mgmt MIB."
    MODULE      -- this module
    MANDATORY-GROUPS {
                clmgmtLicenseDeploymentGroup,
                clmgmtLicenseDeviceInformationGroup,
                clmgmtLicenseInformationGroup,
                clmgmtLicensableFeatureInformationGroup,
                clmgmtLicenseDevCredGroup,
                clmgmtLicenseNotificationEnableGroup,
                clmgmtLicenseUsageNotifGroup,
                clmgmtLicenseDeploymentNotifGroup,
                clmgmtLicenseErrorNotifGroup
            }

    GROUP       clmgmtLicenseStoreInformationGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license stores are supported."

    GROUP       clmgmtLicenseSubscriptionGroup
    DESCRIPTION
        "This object group is mandatory for all devices
   that
        support subscription licensing."

    GROUP       clmgmtLicenseSubscriptionUsageNotifGroup
    DESCRIPTION
        "This notification group is mandatory for all devices that
        support subscription licensing."

    GROUP       clmgmtLicenseRTUGroup
```

```
  DESCRIPTION
     "This object group is mandatory for all devices that
     support Right to Use (RTU) licensing."

  GROUP          clmgmtLicenseRTUUsageNotifGroup
  DESCRIPTION
     "This notification group is mandatory for all devices that
     support Right to use (RTU) licensing."
  ::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
  OBJECTS        {
                 clmgmtNextFreeLicenseActionIndex,
                 clmgmtLicenseActionEntPhysicalIndex,
                 clmgmtLicenseActionTransferProtocol,
                 clmgmtLicenseServerAddressType,
                 clmgmtLicenseServerAddress,
                  clmgmtLicenseServerUsername,
                 clmgmtLicenseServerPassword,
                 clmgmtLicenseFile,
                 clmgmtLicenseStore,
                 clmgmtLicenseActionLicenseIndex,
                 clmgmtLicensePermissionTicketFile,
                 clmgmtLicenseRehostTicketFile,
                 clmgmtLicenseBackupFile,
                 clmgmtLicenseStopOnFailure,
                 clmgmtLicenseAction,
                 clmgmtLicenseActionState,
                 clmgmtLicenseJobQPosition,
                 clmgmtLicenseActionFailCause,
                 clmgmtLicenseActionStorageType,
                 clmgmtLicenseActionRowStatus,
                 clmgmtLicenseIndivActionState,
                 clmgmtLicenseIndivActionFailCause,
                 clmgmtLicenseAcceptEULA,
                 clmgmtLicenseEULAFile

     }
  STATUS         current
  DESCRIPTION
     "A collection of objects for performing license deployment
     i.e., license installation, clear and revoke"
  ::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP
  OBJECTS        {
```

```
                clmgmtLicenseStoreName,
                clmgmtLicenseStoreTotalSize,
                clmgmtLicenseStoreSizeRemaining
            }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about
        license storages in the device."
    ::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
    OBJECTS     { clmgmtDefaultLicenseStore }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about
        device level licensing support information in the device."
    ::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP
    OBJECTS     {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseType,
                clmgmtLicenseCounted,
                clmgmtLicenseValidityPeriod,
                clmgmtLicenseValidityPeriodRemaining,
                clmgmtLicenseExpiredPeriod,
                clmgmtLicenseMaxUsageCount,
                clmgmtLicenseUsageCountRemaining,
                clmgmtLicenseEULAStatus,
                clmgmtLicenseComments,
                clmgmtLicenseStatus
            }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about
        licenses and its state."
    ::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP
    OBJECTS     {
                clmgmtFeatureName,
                clmgmtFeatureVersion,

                clmgmtFeatureValidityPeriodRemaining,
                clmgmtFeatureWhatIsCounted
            }
    STATUS      current
```

```
  DESCRIPTION
     "A collection of objects that provide information about
     licensable features in the software image."
  ::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP
  OBJECTS        {
                 clmgmtNextFreeDevCredExportActionIndex,
                 clmgmtDevCredEntPhysicalIndex,
                 clmgmtDevCredTransferProtocol,
                 clmgmtDevCredServerAddressType,
                 clmgmtDevCredServerAddress,
                 clmgmtDevCredServerUsername,
                 clmgmtDevCredServerPassword,
                 clmgmtDevCredExportFile,
                 clmgmtDevCredCommand,
                 clmgmtDevCredCommandState,
                 clmgmtDevCredCommandFailCause,

     clmgmtDevCredStorageType,
                 clmgmtDevCredRowStatus
               }
  STATUS         current
  DESCRIPTION
     "A collection of objects for exporting device credentials
     from the device."
  ::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
  OBJECTS        {
                 clmgmtLicenseUsageNotifEnable,
                 clmgmtLicenseDeploymentNotifEnable,
                 clmgmtLicenseErrorNotifEnable
               }
  STATUS         current
  DESCRIPTION
     "A collection of objects for controlling
     (enabling/disabling) license notifications to a management
     application."
  ::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS    {
                 clmgmtLicenseExpired,
                 clmgmtLicenseExpiryWarning,
                 clmgmtLicenseUsageCountExceeded,
```

```
    clmgmtLicenseUsageCountAboutToExceed
            }
  STATUS        current
  DESCRIPTION
    "A collection of notifications related to license usage."
  ::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                clmgmtLicenseInstalled,
                clmgmtLicenseCleared,
                clmgmtLicenseRevoked,
                clmgmtLicenseEULAAccepted
            }
  STATUS        current
  DESCRIPTION
    "A collection of notifications related to license deployment."
  ::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    { clmgmtLicenseNotEnforced }
  STATUS        current
  DESCRIPTION
    "A collection of notifications related to license errors."
  ::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtLicenseStartDate,
                 clmgmtLicenseEndDate,
                clmgmtFeatureStartDate,
                clmgmtFeatureEndDate
            }
  STATUS        current
  DESCRIPTION
    "A collection of objects that provide information specific to
    subscription licenses."
  ::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                clmgmtLicenseSubscriptionExpiryWarning,
                clmgmtLicenseSubscriptionExtExpiryWarning,
                clmgmtLicenseSubscriptionExpired
            }
  STATUS        current
  DESCRIPTION
    "A collection of notifications related to usage of subscription
```

```
      licenses."
  ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
  OBJECTS        {
                 clmgmtLicensePeriodUsed,
                 clmgmtFeaturePeriodUsed

 }
  STATUS         current
  DESCRIPTION
     "A collection of objects that provide information specific to
     Right to use (RTU) licenses."
  ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                 clmgmtLicenseEvalRTUTransitionWarning,
                 clmgmtLicenseEvalRTUTransition
               }
  STATUS         current
  DESCRIPTION
     "A collection of notifications related to Right to use (RTU)
     licenses."
  ::= { ciscoLicenseMgmtGroups 14 }

END


--%DNP%  MLC -Edit MLC

--%DNP%  MTF -TRUE MTF
/*
* Generated by ncsc --mib2yang-std
* Source: newjuniper/JUNIPER-LICENSE-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*      smidump -f yang JUNIPER-LICENSE-MIB
*
* Do not edit. Edit the source file instead!
*/

module JUNIPER-LICENSE-MIB {

 namespace "urn:ietf:params:xml:ns:yang:smiv2:JUNIPER-LICENSE-MIB";
 prefix "juniper-license";
```

```
import SNMPv2-TC {
  prefix "snmpv2-tc";
}

import ietf-yang-smiv2 {
  prefix "smiv2";
}

organization
 "Juniper Networks, Inc.";

contact
 "Juniper Technical Assistance Center
  Juniper Networks, Inc.
  1133 Innovation Way
  Sunnyvale, CA 94089
  E-mail: support@juniper.net";

description
 "Implementation of enterprise specific MIB
  for license commands and configuration.";

revision 2019-06-17 {
  description
   "Deprecated jnxLicenseKeys.";
}

revision 2016-12-15 {
  description
   "Added OID jnxLicenseKeyType and Trap jnxLicenseExpired";
}

revision 2010-07-09
{
  description
   "Initial version.";
}


container JUNIPER-LICENSE-MIB {
  config false;

  container jnxLicenseSettings {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";

    leaf jnxLicenseRenewBeforExpiration {
      type int32;
```

```
      description
       "License renew lead time before expiration in days.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";
     }

     leaf jnxLicenseRenewInterval {
      type int32;
      description
       "License checking interval in hours.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";
     }

     leaf jnxLicenseAutoUpdate {
      type snmpv2-tc:DisplayString;
      description
       "License auto update URL of a license server.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
     }
    }

    container jnxLicenseInstallTable {
     description
      "This table contains installed
  feature license information.";
     smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

     list jnxLicenseInstallEntry {
      key "jnxLicenseId";
      smiv2:implied "jnxLicenseId";
      description
       "A row of giving installed feature license information.";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

      leaf jnxLicenseId {
       type snmpv2-tc:DisplayString;
       description
        "Installed feature licenses Id.";
       smiv2:max-access "not-accessible";
       smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
      }

      leaf jnxLicenseVersion {
       type int32;
       description
        "License Version information";
```

```
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.2";
}

leaf jnxLicenseDeviceId {
  type snmpv2-tc:DisplayString;
  description
   "License Device Id ";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.3";
 }

leaf jnxLicenseType {
  type enumeration {
    enum "invalid" {
      value "0";
    }
    enum "count-down" {
      value "1";
    }
    enum "date-based" {
      value "2";
    }
    enum "permanent" {
      value "3";
    }
  }
  description
   "License type information";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
}

leaf jnxLicenseKeys {
  type binary;
  status deprecated;
  description
   "******** THIS OBJECT IS DEPRECATED ********
    This object is deprecated,
    it displays all the license keys
    in the system.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
}

leaf jnxLicenseKeyType {
  type enumeration
```

```
{
        enum "commercial" {
          value "1";
        }
        enum "trial" {
          value "2";
        }
        enum "demo" {
          value "3";
        }
        enum "emergency" {
          value "4";
        }
        enum "lab" {
          value "5";
        }
        enum "education" {
          value "6";
        }
      }
      description
       "License key type";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
    }
  }
 }

 container jnxLicenseFeatureListTable {
  description
   "list of features supporting Licensing.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";

  list jnxLicenseFeatureListEntry {
    key "jnxLicenseFeatureId";
    description
     "A row of licensed features.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

    leaf jnxLicenseFeatureId {
      type int32;
       description
       "Feature Id to point an entry in this table";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
    }

    leaf jnxLicenseFeatureName {
```

```
  type snmpv2-tc:DisplayString;
  description
   "Feature Name";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
 }

 leaf jnxLicenseFeatureDescr {
  type snmpv2-tc:DisplayString;
  description
   "Feature Name";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
 }

 leaf jnxLicenseFeatureLicenseId {
  type snmpv2-tc:DisplayString;
  description
   "Feature License Id";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
 }

 leaf jnxLicenseFeatureLicenseUsed {
  type int32;
  description

 "Licenses Used";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
 }

 leaf jnxLicenseFeatureLicenseInstalled {
  type int32;
  description
   "Licenses Installed";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
 }

 leaf jnxLicenseFeatureLicenseNeeded {
  type int32;
  description
   "Licenses Needed";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
 }
}
```

```
  }
 }

 notification jnxLicenseGraceExpired {
  description
   "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is expired";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
       }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
       }
    }
  }
 }

 notification jnxLicenseGraceAboutToExpire {
  description
   "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
       }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
       }
    }
```

```
  }
 }

 notification jnxLicenseAboutToExpire {
  description
   "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
 }

 notification jnxLicenseInfringeCumulative
 {
  description
   "The SNMP trap that is generated when the feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
```

```
      }
    }
  }
}

 notification jnxLicenseInfringeSingle {
  description
   "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either
 expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

 notification jnxLicenseKeyExpired {
  description
   "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
       }
    }

    leaf jnxLicenseFeatureName {
```

```
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }

  container object-2 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

    leaf jnxLicenseFeatureLicenseId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
      }
    }
  }

  container object-3
 {

    leaf jnxLicenseId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
      }
    }

    leaf jnxLicenseKeyType {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
      }
    }
  }
 }

 smiv2:alias "jnxLicenseMIB" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
 }

 smiv2:alias "jnxLicenseNotifications" {
```

```
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
 }

 smiv2:alias "jnxLicenseObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
 }

 smiv2:alias "jnxLicenseInstallObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
 }

 smiv2:alias "jnxLicenseSettings" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
 }

}
module openconfig-license {

 yang-version "1";

 namespace "http://openconfig.net/yang/license";

 prefix "oc-license";

 import openconfig-extensions { prefix oc-ext; }

 organization "OpenConfig working group";

 contact
  "OpenConfig working group
  www.openconfig.net";

 description
  "This module defines configuration and operational
  state data for licenses.";

 oc-ext:openconfig-version "0.2.0";

 revision "2020-04-22" {
  description
   "Make license-data a union of a string or binary.";
  reference "0.2.0";
 }

 revision "2020-01-07" {
  description
   "Initial revision";
  reference "0.1.0";
```

```
}

// OpenConfig specific extensions for module metadata.
oc-ext:regexp-posix;
oc-ext:catalog-organization "openconfig";
oc-ext:origin "openconfig";


grouping license-config {
  description
    "Configuration data for license";

  leaf license-id {
    type string;
    description
      "License ID. A string that uniquelly identifies
the license. The
       platform should list all the licenses it supports being activated.";
  }

  leaf license-data {
    type union {
      type binary;
      type string;
    }
    description
      "The contents of the licence (if required) - which may be
       supplied as a binary blob, or a simple string value. If this
       value is considered sensitive, it may be read as an empty value.";
  }

  leaf active {
    type boolean;
    default false;
    description
      "The activation state of the license.";
  }

}

grouping license-state {
  description
  "State data for license";

  leaf description {
    type string;
    description
      "The license description.";
```

```
  }

  leaf issue-date {
    type uint64;
    description
      "The date and time at which the license was issued, expressed as the
       number of nanoseconds since the Unix Epoch
       (January 1, 1970, 00:00 UTC).";
  }

  leaf expiration-date
 {
    type uint64;
    description
      "The date and time at which the license will expire, expressed as the
       number of nanoseconds since the Unix Epoch
       (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
  }

  leaf in-use {
    type boolean;
    description
      "The license is in use. Different from active. This states that the
       license is effectively being used in addition to being active. If
       license for feature X was activated but feature X is not being used,
       then this should be false.";
  }

  leaf expired {
    type boolean;
    description
      "The license has expired.";
  }

  leaf valid {
    type boolean;
    description
      "The license is valid. Can be activated in the system or platform.";
  }

 }

 grouping licenses-top {
  description
    "Top-level grouping for licenses.";

  container licenses {
    description
```

```
      "Enclosing container for list of licenses";

    list license {
     key "license-id";
     description
       "List of licenses.";

     leaf license-id {
       type leafref {
         path "../config/license-id";
       }
       description
         "Reference to license id list key";
     }

     container config {
       description
         "Configuration data for license";

       uses license-config;
     }

     container state {

       config false;

       description
         "Operational state data for license.";

       uses license-config;
       uses license-state;
     }
    }
  }

}

grouping license-top {
  description
    "Top-level for the license model";

  container license {
    description
      "Container for license model";

    uses licenses-top;

  }
```

```
 }

}
/*
* Generated by ncsc --mib2yang-std
* Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*      smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB
*
* Do not edit. Edit the source file instead!
*/

module CISCO-IMAGE-LICENSE-MGMT-MIB {

 namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";
 prefix "cisco-image-license-mgmt-mib";

 import ENTITY-MIB {
   prefix "entity-mib";
 }

 import SNMP-FRAMEWORK-MIB {
   prefix "snmp-framework";
 }

 import ietf-yang-smiv2 {
   prefix "smiv2";
 }

 organization
  "Cisco Systems Inc.";

 contact
  "Cisco Systems
   Customer Service
   Postal: 170 W Tasman Drive
   San Jose, CA  95134
   USA
   Tel: +1 800 553 -NETS
   E-mail: cs-snmp@cisco.com";

 description
  "The MIB module for managing the running image level
   of a Cisco device. Cisco's licensing mechanism provides
   flexibility to run a device on a chosen image
```

level.
This mechanism is referred to as image level licensing.
Image level licensing leverages the universal image
based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software
packages is loaded on to the device. At boot time, the
device determines the highest level of license and brings
up the appropriate software features or subsystems.
The user can configure the image level with which the
device has to boot. The system will verify whether the
appropriate license is available for the configured image
level. The image level for the next boot will be determined
based on the availability of the license. The following
scenarios explains some use-cases of image level licensing:

Scenario 1:
- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features
that are part of the
base advsecurity license.
- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the
next reboot. After reboot the device will run
advipservicesk9 features.

Scenario 2:
- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity
license on the device.
- This device will run all features that are part of the
base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA)
before using this MIB to configure the image level.

This MIB should be used in conjuntion with
CISCO-LICENSE-MGMT-MIB module to achieve the image level
licensing functionality.

This MIB module defines objects which provides the different
image levels supported by the device and the license

```
required
  to enable a particular image level. It also defines objects
  to let the user configure the required image level. The MIB
  module contains notification which will be triggered when
  the user changes the image level for next boot.

  The CISCO-LICENSE-MGMT-MIB module should be used to export
  the EULA and to configure the required license.

  This MIB module is defined generically so it can be used for
  both stand-alone as well as stackable devices. The
  entPhysicalIndex imported from ENTITY-MIB is used to identify
  the device uniquely.";

revision 2007-10-16 {
  description
   "Initial version of this MIB module.";
}

typedef BootImageLevel {
  type binary {
    length "0..255";
  }
  description
   "This textual convention is used to define
    the image level.

    If the device is running at advipservices
    image level, then the boot image level will
    be 'advipservices'.";
}

typedef LicenseNameList
{
  type binary {
    length "0..255";
  }
  description
   "This textual convention is used to define
    the list of license names. If multiple licenses
    are present then this string will contain all
    the licenses seperated by the ',' character.

    If the license required to run a device at
    advipservices image level is advipservices and
    advsecurity, then the license name list will be
    'advipservices,advsecurity'.";
}
```

```
container CISCO-IMAGE-LICENSE-MGMT-MIB {
 config false;

 container ciscoImageLicenseMgmtMIBObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1";

  leaf cilmEULAAccepted {
   type boolean;
   description
    "This object when set to TRUE means that the user has
     accepted the END USER LICENSE AGREEMENT. This object
     has to be set to TRUE by the user before using the
     objects in the cilmBootImageLevelTable to configure
     the license.";
   smiv2:defval
"false";
   smiv2:max-access "read-write";
   smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
  }
 }

 container cilmNotifCntl {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

  leaf cilmImageLevelChangedNotif {
   type boolean;
   description
    "Specify whether or not a notification should be
     generated on the detection of change in next boot
     image level.

     If set to TRUE, cilmBootImageLevelChanged notification
     will be generated. It is the responsibility of the
     management entity to ensure that the SNMP administrative
     model is configured in such a way as to allow the
     notification to be delivered.";
   reference
    "See also RFC3413 for explanation that notifications
     are under the ultimate control of the MIB module in
     this document.";
   smiv2:defval "false";
   smiv2:max-access "read-write";
   smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
  }
 }
```

```
  container cilmBootImageLevelTable {
    description
     "A table that contains the configuration information of
      current and next boot image level. This table contains
      entries for each software module running in an image
      loaded in the device. The software module is identified by
      cilmModuleName and the device is identified by
      entPhysicalIndex.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

    list cilmBootImageLevelEntry {
      key "entPhysicalIndex cilmModuleName";
      description
       "An entry in the table for each module containing the
        list of objects that define the configuration of next
        boot level. The following information is specified by
        the objects present in the table.

        - Current image level.
        - Configured image level for the next boot.
        - Actual image level for the next boot.
        - License store index for the current license.
         - License index of the current license.
        - License store index for the next boot license.
        - License index of the next boot license.";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf cilmModuleName {
        type snmp-framework:SnmpAdminString;
        description
         "This object is used as one of the two indices in
          cilmBootImageLevelTable. This object indicates the module
          name of the software package. There can be multiple
          modules in an image performing specific functionality.
          For example, in a wireless image there can be two modules
          - a base image module and a wireless module.";
        smiv2:max-access "not-accessible";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
       }

      leaf cilmCurrentImageLevel {
```

```
        type cisco-image-license-mgmt-mib:BootImageLevel;
        description
         "This object indicates the current image level that
          the module is running.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
      }

      leaf cilmConfiguredBootImageLevel {
        type cisco-image-license-mgmt-mib:BootImageLevel;
        description
         "This object indicates the configured image level
          of the module for the next boot.

          Note: The configured next boot image level may not
          be the actual next boot image level. The actual next
          boot image level is denoted by cilmNextBootImageLevel
          which is determined based on the license availability.";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
      }

      leaf cilmNextBootImageLevel {
        type
  cisco-image-license-mgmt-mib:BootImageLevel;
        description
         "This object indicates the next boot image level. The
          next boot image level can be different from configured
          level. The next boot image level is determined based
          on the availability of required license.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
      }

      leaf cilmCurrentLicenseStoreIndex {
        type uint32;
        description
         "This object indicates the license store index where the
          currently used license is stored. This object has the same
          value as clmgmtLicenseStoreIndex object and uniquely
          identifies an entry in clmgmtLicenseStoreInfoTable in
          CISCO-LICENSE-MGMT-MIB.

          Note: The license store index can be '0' if no license is
          installed and device is running base image.";
        smiv2:max-access "read-only";
```

```
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
   }

   leaf cilmCurrentLicenseIndex {
    type uint32;
    description
     "This object indicates the license index of the currently used
      license. This object has the same value as clmgmtLicenseIndex and
      uniquely identifies an entry in clmgmtLicenseInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license index can be '0' if no license is
      installed and device is running base image.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
   }

   leaf cilmNextBootLicenseStoreIndex {
    type uint32;
    description
     "This object indicates the license store index where the
      next boot license is stored. This object has the same
      value as clmgmtLicenseStoreIndex object and uniquely
      identifies an entry in clmgmtLicenseStoreInfoTable in

   CISCO-LICENSE-MGMT-MIB.

      Note: The license store index can be '0' if no license is
      installed for the next boot.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
   }

   leaf cilmNextBootLicenseIndex {
    type uint32;
    description
     "This object indicates the license index of the next boot
      license. This object has the same value as clmgmtLicenseIndex
      and uniquely identifies an entry in clmgmtLicenseInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license index can be '0' if no license is
      installed for the next boot.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
   }
  }
}
```

```
  container cilmImageLevelToLicenseMapTable {
    description
     "This table contains the mapping between different
      image levels of each modules in the
 image and the
      license required to run the modules at a particular
      image level. This table can be used to identify the
      different image levels and the appropriate licenses
      required for each.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

    list cilmImageLevelToLicenseMapEntry {
      key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
      description
       "An entry in the table containing the following
        information.
        - The image levels at the which the modules can be run.
        - The license required to the run a module at a
        particular image level.
        - The priority of the license.";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

      leaf entPhysicalIndex {
        type leafref {
          path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
      }

      leaf cilmModuleName {
        type leafref {

        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
        }
      }

      leaf cilmImageLicenseMapIndex {
        type uint32;
        description
         "This is a running index used to identify an entry
          of this table.";
        smiv2:max-access "not-accessible";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
      }
```

```
    leaf cilmImageLicenseImageLevel {
      type cisco-image-license-mgmt-mib:BootImageLevel;
      description
       "This object indicates the image level at which
        a module can be run. A module can be run at
        different image levels. An entry will be created
        in this table for every module and image level
        combination.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
     }

    leaf cilmImageLicenseName {
      type cisco-image-license-mgmt-mib:LicenseNameList;
      description
       "This object indicates the list of licenses needed to
        be installed for the module to run at the image level
        mentioned by cilmImageLicenseImageLevel object of this
        entry.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
    }

    leaf cilmImageLicensePriority {
      type uint32 {
        range "1..255";
      }
      description
       "This object indicates the priority of the image level
        mentioned by cilmImageLicenseImageLevel object of this
        entry. The image level with the highest priority license
        will be considered as the default level in the absense of
        next boot image level configuration. For example if there
        are three licenses l1, l2 and l3 in the ascending order of

        priority, then by default l1 will be the level at which the
        module will be running. If the next boot level is configured
        then the configuration will override the priority. The highest
        priority license supports a feature set which is a super set of
        all other licenses.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
     }
   }
  }
}

notification cilmBootImageLevelChanged {
```

```
  description
   "This notification is triggered when next boot image level
    is changed in the management entity. The current and
    configured image level are indicated by cilmCurrentImageLevel
    and cilmConfiguredBootImageLevel objects respectively.";
  smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
    }

    leaf cilmModuleName {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
       }
    }

    leaf cilmCurrentImageLevel {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
       }
      }
    }

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
       }
    }

    leaf cilmModuleName {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
```

```
      }
    }

    leaf cilmConfiguredBootImageLevel {
      type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
      }
    }
  }
 }

 smiv2:alias "ciscoImageLicenseMgmtMIB" {
  smiv2:oid "1.3.6.1.4.1.9.9.640";
 }

 smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.0";
 }

 smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1";
 }

 smiv2:alias "cilmNotifCntl" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
 }

 smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.2";
 }

 smiv2:alias "cilmModuleCompliances" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
  }

 smiv2:alias "cilmModuleGroups" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
 }

}
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```

```
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#     Name <email address>

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JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
  NOTIFICATION-TYPE
     FROM SNMPv2-SMI
  jnxLicenseMibRoot
     FROM JUNIPER-SMI
  DisplayString
     FROM SNMPv2-TC;

jnxLicenseMIB       MODULE-IDENTITY
  LAST-UPDATED    "201007090000Z"
  ORGANIZATION    "Juniper Networks, Inc."
  CONTACT-INFO
         "Juniper Technical Assistance Center
          Juniper Networks, Inc.
          1194 N. Mathilda Avenue
          Sunnyvale, CA 94089
          E-mail: support@juniper.net"
  DESCRIPTION
     "Implementation of enterprise specific MIB
      for license commands and configuration."
  REVISION    "201007090000Z"    -- Jul 09, 2010
  DESCRIPTION
         "Initial version."
   ::=  {  jnxLicenseMibRoot  1  }

jnxLicenseNotifications     OBJECT IDENTIFIER ::=  {  jnxLicenseMIB  0  }
jnxLicenseObjects           OBJECT IDENTIFIER ::=  {  jnxLicenseMIB  1  }
```

```
jnxLicenseInstallObjects     OBJECT IDENTIFIER ::=  { jnxLicenseObjects 1 }
jnxLicenseSettings           OBJECT IDENTIFIER ::=  { jnxLicenseObjects 2 }

-- ****************************************************************
-- License table for installed licenses
-- ****************************************************************

jnxLicenseInstallTable   OBJECT-TYPE
  SYNTAX          SEQUENCE  OF  JnxLicenseInstallEntry
  MAX-ACCESS       not-accessible
  STATUS          current
  DESCRIPTION      "This table contains installed feature license information."
  ::=  { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry   OBJECT-TYPE
  SYNTAX          JnxLicenseInstallEntry
  MAX-ACCESS       not-accessible
  STATUS          current
  DESCRIPTION      "A row of giving installed
 feature license information."
  INDEX           {  IMPLIED jnxLicenseId  }
  ::=  { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry  ::=  SEQUENCE {
  jnxLicenseId             DisplayString,
  jnxLicenseVersion        INTEGER,
  jnxLicenseDeviceId       DisplayString,
  jnxLicenseType           INTEGER,
  jnxLicenseKeys           OCTET STRING
  }

jnxLicenseId OBJECT-TYPE
  SYNTAX         DisplayString
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION    "Installed feature licenses Id."
  ::=  {  jnxLicenseInstallEntry 1  }

jnxLicenseVersion OBJECT-TYPE
  SYNTAX         INTEGER
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION    "License Version information"
  ::=  {  jnxLicenseInstallEntry 2  }

jnxLicenseDeviceId OBJECT-TYPE
  SYNTAX         DisplayString
  MAX-ACCESS     read-only
```

```
  STATUS          current
  DESCRIPTION     "License Device Id "
  ::=  {  jnxLicenseInstallEntry
 3  }

jnxLicenseType OBJECT-TYPE
  SYNTAX          INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION     "License type information"
  ::=  {  jnxLicenseInstallEntry 4  }

jnxLicenseKeys      OBJECT-TYPE
  SYNTAX          OCTET STRING
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION     "License Keys"
  ::=  {  jnxLicenseInstallEntry 5  }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE
  SYNTAX          SEQUENCE  OF  JnxLicenseFeatureListEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION     "list of features supporting Licensing."
  ::=  { jnxLicenseInstallObjects  2 }

jnxLicenseFeatureListEntry OBJECT-TYPE
  SYNTAX          JnxLicenseFeatureListEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION     "A row of licensed features."
  INDEX           {  jnxLicenseFeatureId
  }
  ::=  { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::=  SEQUENCE {
  jnxLicenseFeatureId             INTEGER,
  jnxLicenseFeatureName           DisplayString,
  jnxLicenseFeatureDescr          DisplayString,
  jnxLicenseFeatureLicenseId      DisplayString,
  jnxLicenseFeatureLicenseUsed            INTEGER,
  jnxLicenseFeatureLicenseInstalled       INTEGER,
  jnxLicenseFeatureLicenseNeeded          INTEGER
  }

jnxLicenseFeatureId OBJECT-TYPE
```

```
  SYNTAX            INTEGER
  MAX-ACCESS        not-accessible
  STATUS            current
  DESCRIPTION       "Feature Id to point an entry in this table"
  ::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE
  SYNTAX              DisplayString
  MAX-ACCESS          read-only
  STATUS              current
  DESCRIPTION         "Feature Name"
  ::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE
  SYNTAX
      DisplayString
  MAX-ACCESS          read-only
  STATUS              current
  DESCRIPTION         "Feature Name"
  ::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE
  SYNTAX              DisplayString
  MAX-ACCESS          read-only
  STATUS              current
  DESCRIPTION         "Feature License Id"
  ::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed     OBJECT-TYPE
  SYNTAX        INTEGER
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION   "Licenses Used"
  ::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE
  SYNTAX        INTEGER
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION   "Licenses Installed"
  ::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded   OBJECT-TYPE
  SYNTAX        INTEGER
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
```

```
    "Licenses Needed"
  ::=  {  jnxLicenseFeatureListEntry 7  }


-- ****************************************************************
-- License configuration parameters
-- ****************************************************************

jnxLicenseRenewBeforExpiration  OBJECT-TYPE
  SYNTAX                 INTEGER
  MAX-ACCESS               read-only
  STATUS                 current
  DESCRIPTION
     "License renew lead time before expiration in days."
  ::= { jnxLicenseSettings  1 }

jnxLicenseRenewInterval  OBJECT-TYPE
  SYNTAX            INTEGER
  MAX-ACCESS         read-only
  STATUS            current
  DESCRIPTION
     "License checking interval in hours."
  ::= { jnxLicenseSettings  2 }

jnxLicenseAutoUpdate    OBJECT-TYPE
  SYNTAX            DisplayString
  MAX-ACCESS         read-only
  STATUS            current
  DESCRIPTION
     "License auto update URL of a license server."
  ::= { jnxLicenseSettings
 3 }



-- ****************************************************************
-- define branches for jnx license traps
-- ****************************************************************

jnxLicenseGraceExpired NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the license grace period for
      feature identified by jnxLicenseFeatureName is expired"
  ::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
```

```
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the license grace period for
      feature identified by jnxLicenseFeatureName is about to expire"
  ::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the license period for

   feature identified by jnxLicenseFeatureName is about to expire"
  ::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the feature is used more
      times than as specified in number of licenses allowed for feature
      as identified by jnxLicenseFeatureName"
  ::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
     "The SNMP trap that is generated when the license for feature
      identified by jnxLicenseFeatureName is not valid i.e. either expired or
      not available."
  ::= { jnxLicenseNotifications 5 }


END
```

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1.271 robot-oam-grpc 0.0.0-20210923091523-4e2f9f7191f9

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* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a/proto/commands/telemetry.proto
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1.272 x-crypto 0.0.0-20220314234659-1baeb1ce4c0b

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1.273 x-sync 0.0.0-20220722155255-886fb9371eb4

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1.274 urllib3 1.26.12

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1.277 tenacity 8.0.1

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1.282 pep517 0.8.2

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1.283 colorama 0.4.3

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1.284 packaging 16.8

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1.285 html5lib 1.0.1

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1.287 distro 1.7.0

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1.288 pyyaml 6.0

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1.299 distlib 0.3.6

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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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==========

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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
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- Anthony Baxter
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1.300 colorama 0.4.5

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1.301 python-certifi 2022.09.24

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with

an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.302 pep517 0.13.0

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1.303 python-setuptools 65.6.0

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1.304 alpine-baselayout 3.4.0-r0

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
```

```
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

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95052.

```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}
```

```
package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
```

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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"

_builddir="$srcdir"/$_pkgname-$pkgver
prepare() {
 local i
 cd "$_builddir"
 for i in $source; do
  case $i in
  *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
  esac
 done
}

```
build() {
 cd "$_builddir"
 python setup.py build || return 1
}

package() {
 cd "$_builddir"
 python setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b  flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
  flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46  flake8-copyright-0.1.tar.gz"
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SUCH DAMAGE.
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
```

```
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
```

1.305 grpc 1.50.1

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1.312 prometheus-client 0.2.0

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1.313 crewjam-saml 0.4.9

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1.314 crosswork-robot-api 4.5.0.5

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cw_ztp_license_device.proto

ZtpLicenseDevice

Field	Type	Label	Description
deviceSerialNumber	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than

2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.
string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)
Protocol Documentation

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cw_ztp_license_device_v2.proto

ZtpLicenseDeviceV2

Field	Type	Label	Description
uuid	[string](#string)		
serialNumber	[string](#string)	repeated	
locationId	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
```

```
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
 Uuid                 string   `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
 SerialNumber         []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
 LocationId           string   `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
 XXX_NoUnkeyedLiteral
 struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
```

```
 xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
 if m != nil {
  return m.Uuid
 }
 return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
 if m != nil {
  return m.SerialNumber
 }
 return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
 if m != nil {
  return m.LocationId
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65,
 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
 0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
 0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
 0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
 0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
 0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
 0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
 0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
 0x00, 0xff, 0xff, 0x66,
```

```
 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
 Id                   int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
 Status               string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
 LastUpdated          int64    `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
 XXX_NoUnkeyedLiteral
 struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
```

```
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func
 (m *ZtpLicense) GetId() int32 {
 if m != nil {
  return m.Id
 }
 return 0
}

func (m *ZtpLicense) GetStatus() string {
 if m != nil {
  return m.Status
 }
 return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
 if m != nil {
  return m.LastUpdated
 }
 return 0
}

func init() {
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
 // 222 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
 0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
 0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
```

0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48,
0x58, 0x5f, 0xc2, 0xfe,
0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}
Protocol Documentation

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cw_ztp_license.proto

ZtpLicense

Field	Type	Label	Description
id	[int32](#int32)		
status	[string](#string)		
lastUpdated	[int64](#int64)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
 fmt "fmt"
```

```
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {
 DeviceSerialNumber   string   `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDevice)
 Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}
```

```
var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
 if m
 != nil {
  return m.DeviceSerialNumber
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

1.315 robot-infra-utils 1.0.2-0.20221209050430-08312f1d185d

1.315.1 Available under license :

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Version 2.1, February 1999

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```
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import (
  dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
 Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
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```

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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lib/hcrypto/test_dh.c

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1.335 x-net 0.7.0

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1.336 robot-robot-api 0.0.0-20230223115406-745b54cf2c1e

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cw_ztp_license_device.proto

ZtpLicenseDevice

Field	Type	Label	Description
deviceSerialNumber	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

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cw_ztp_license_device_v2.proto

ZtpLicenseDeviceV2

Field	Type	Label	Description
uuid	[string](#string)		
serialNumber	[string](#string)	repeated	
locationId	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum

| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer
 | Bignum or Fixnum (as required) |
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
 Uuid              string   `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
 SerialNumber        []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
 LocationId          string   `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
```

```
 XXX_NoUnkeyedLiteral
 struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
 xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
 if m != nil {
  return m.Uuid
 }
 return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
 if m != nil {
  return m.SerialNumber
 }
 return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
 if m != nil {
```

```
 return m.LocationId
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65,
 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
 0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
 0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
 0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
 0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
 0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
 0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
 0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
 0x00, 0xff, 0xff, 0x66,
 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
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   - [ZtpLicense](#cwztpsvc-ZtpLicense)

- [Scalar Value Types](#scalar-value-types)



<a name="cw_ztp_license-proto"></a>
<p align="right"><a href="#top">Top</a></p>

## cw_ztp_license.proto
```


ZtpLicense

Field	Type	Label	Description
id	[int32](#int32)		
status	[string](#string)		
lastUpdated	[int64](#int64)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding.

Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
 Id                   int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
 Status               string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
 IsLabEnabled         bool     `protobuf:"varint,3,opt,name=isLabEnabled,proto3" json:"isLabEnabled,omitempty"`
 LastUpdated
        int64    `protobuf:"varint,4,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}
```

```
func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown()
 {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {
 if m != nil {
  return m.Id
 }
 return 0
}

func (m *ZtpLicense) GetStatus() string {
 if m != nil {
  return m.Status
 }
 return ""
}

func (m *ZtpLicense) GetIsLabEnabled() bool {
 if m != nil {
  return m.IsLabEnabled
 }
 return false
}

func (m *ZtpLicense) GetLastUpdated() int64 {
```

```
 if m != nil {
  return m.LastUpdated
 }
 return 0
}

func init() {
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
 // 241 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x54, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0x49, 0xab, 0xa5, 0x46, 0x11, 0x0c, 0x22, 0x8b, 0x88, 0x84, 0x9e, 0xf6, 0xe2, 0x06,
 0xe9, 0x3f, 0x58, 0xf1, 0x56, 0x68, 0x09, 0x8a,
 0xd0, 0x4b, 0xc9, 0x17, 0x69, 0x20, 0xcd, 0x84,
 0x66, 0x6a, 0x61, 0x7f, 0xbd, 0xb4, 0xdb, 0xa2, 0x1e, 0xe7, 0x9d, 0x79, 0x1f, 0x9e, 0xa1, 0xf7,
 0x66, 0xbf, 0xea, 0x30, 0xaf, 0x62, 0x30, 0x2e, 0x15, 0xd7, 0xe4, 0x2d, 0x20, 0xb0, 0xb1, 0xd9,
 0x77, 0x98, 0xcb, 0xb7, 0x79, 0x7c, 0xf2, 0x00, 0x3e, 0x3a, 0xa1, 0x72, 0x10, 0x2a, 0x25, 0x40,
 0x85, 0x01, 0x52, 0xe9, 0xef, 0x26, 0x1d, 0xa5, 0x4b, 0xcc, 0xb3, 0xbe, 0xcb, 0x6e, 0xe9, 0x20,
 0xd8, 0x8a, 0x70, 0x52, 0x5f, 0xca, 0x41, 0xb0, 0xec, 0x81, 0x8e, 0x0a, 0x2a, 0xdc, 0x95, 0x6a,
 0xc0, 0x49, 0x7d, 0x25, 0x4f, 0x13, 0x9b, 0xd0, 0x9b, 0x50, 0x66, 0x4a, 0xbf, 0x27, 0xa5, 0xa3,
 0xb3, 0xd5, 0x90, 0x93, 0x7a, 0x2c, 0xff, 0x65, 0x8c, 0xd3, 0xeb, 0xa8, 0x0a, 0x7e, 0x66, 0xab,
 0xd0, 0xd9, 0xea, 0x82, 0x93, 0x7a, 0x28, 0xff, 0x46, 0xed, 0x9a, 0x3e, 0x1b, 0xd8, 0x34, 0x26,
 0x14, 0x03, 0xcd, 0x16, 0x34, 0x60, 0x2f, 0xd5, 0x9c, 0xdd, 0xdb, 0xbb, 0xb7, 0xaf, 0x5f, 0xbb,
 0xc5, 0x61, 0xb7, 0x20, 0xcb, 0x57, 0x1f, 0x70, 0xbd, 0xd3, 0xd3, 0x53, 0xd1,
 0xc0, 0x46, 0xc8,
 0x79, 0x3b, 0xff, 0x10, 0x47, 0xc4, 0xcb, 0xe1, 0x4f, 0x0f, 0x51, 0x25, 0x2f, 0xce, 0x1c, 0x3d,
 0x3a, 0x72, 0xa7, 0x3f, 0x01, 0x00, 0x00, 0xff, 0xff, 0xf4, 0xb4, 0x37, 0x45, 0x2c, 0x01, 0x00,
 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {
 DeviceSerialNumber   string   `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDevice)
 Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
 if m
 != nil {
  return m.DeviceSerialNumber
```

```
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

1.337 golang-genproto 0.0.0-20230221151758-ace64dc21148

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1.339 modernc.org-libc 1.22.3

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1.340 remyoudompheng-bigfft 0.0.0-20230129092748-24d4a6f8daec

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1.342 gogo-protobuf 1.3.2

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Protocol Buffers for Go with Gadgets

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1.343 mattn-go-isatty 0.0.12

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1.344 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.345 mattn-go-isatty 0.0.16

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1.346 golang 1.20.2

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1.347 golang 1.19.7

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
```

```
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
```

```
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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)
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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1.350 protobuf 1.29.0

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1.351 robot-robot-api 0.0.0-20230314115932-550758cb5a53

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cw_ztp_license_device.proto

ZtpLicenseDevice

Field	Type	Label	Description
deviceSerialNumber	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

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cw_ztp_license_device_v2.proto

ZtpLicenseDeviceV2

Field	Type	Label	Description
uuid	[string](#string)		
serialNumber	[string](#string)	repeated	
locationId	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float

Float |
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer
Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
```

```
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
 Uuid                 string   `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
 SerialNumber         []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
 LocationId           string   `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
 XXX_NoUnkeyedLiteral
 struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var
 xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
 if m != nil {
  return m.Uuid
 }
 return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
 if m != nil {
  return m.SerialNumber
```

```
 }
 return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
 if m != nil {
  return m.LocationId
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65,
 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
 0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
 0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
 0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
 0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
 0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
 0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
 0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
 0x00, 0xff, 0xff, 0x66,
 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
# Protocol Documentation
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cw_ztp_license.proto

ZtpLicense

Field	Type	Label	Description
id	[int32](#int32)		
status	[string](#string)		
lastUpdated	[int64](#int64)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)

| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding.
Signed int value. These more efficiently encode negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII
text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
 Id                int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
 Status            string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
 IsLabEnabled      bool     `protobuf:"varint,3,opt,name=isLabEnabled,proto3" json:"isLabEnabled,omitempty"`
 LastUpdated
```

```
        int64    `protobuf:"varint,4,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown()
 {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {
 if m != nil {
  return m.Id
 }
 return 0
}

func (m *ZtpLicense) GetStatus() string {
 if m != nil {
  return m.Status
 }
 return ""
}

func (m *ZtpLicense) GetIsLabEnabled() bool {
 if m != nil {
```

```
 return m.IsLabEnabled
 }
 return false
}

func (m *ZtpLicense) GetLastUpdated() int64 {
 if m != nil {
  return m.LastUpdated
 }
 return 0
}

func init() {
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
 // 241 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x54, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0x49, 0xab, 0xa5, 0x46, 0x11, 0x0c, 0x22, 0x8b, 0x88, 0x84, 0x9e, 0xf6, 0xe2, 0x06,
 0xe9, 0x3f, 0x58, 0xf1, 0x56, 0x68, 0x09, 0x8a,
 0xd0, 0x4b, 0xc9, 0x17, 0x69, 0x20, 0xcd, 0x84,
 0x66, 0x6a, 0x61, 0x7f, 0xbd, 0xb4, 0xdb, 0xa2, 0x1e, 0xe7, 0x9d, 0x79, 0x1f, 0x9e, 0xa1, 0xf7,
 0x66, 0xbf, 0xea, 0x30, 0xaf, 0x62, 0x30, 0x2e, 0x15, 0xd7, 0xe4, 0x2d, 0x20, 0xb0, 0xb1, 0xd9,
 0x77, 0x98, 0xcb, 0xb7, 0x79, 0x7c, 0xf2, 0x00, 0x3e, 0x3a, 0xa1, 0x72, 0x10, 0x2a, 0x25, 0x40,
 0x85, 0x01, 0x52, 0xe9, 0xef, 0x26, 0x1d, 0xa5, 0x4b, 0xcc, 0xb3, 0xbe, 0xcb, 0x6e, 0xe9, 0x20,
 0xd8, 0x8a, 0x70, 0x52, 0x5f, 0xca, 0x41, 0xb0, 0xec, 0x81, 0x8e, 0x0a, 0x2a, 0xdc, 0x95, 0x6a,
 0xc0, 0x49, 0x7d, 0x25, 0x4f, 0x13, 0x9b, 0xd0, 0x9b, 0x50, 0x66, 0x4a, 0xbf, 0x27, 0xa5, 0xa3,
 0xb3, 0xd5, 0x90, 0x93, 0x7a, 0x2c, 0xff, 0x65, 0x8c, 0xd3, 0xeb, 0xa8, 0x0a, 0x7e, 0x66, 0xab,
 0xd0, 0xd9, 0xea, 0x82, 0x93, 0x7a, 0x28, 0xff, 0x46, 0xed, 0x9a, 0x3e, 0x1b, 0xd8, 0x34, 0x26,
 0x14, 0x03, 0xcd, 0x16, 0x34, 0x60, 0x2f, 0xd5, 0x9c, 0xdd, 0xdb, 0xbb, 0xb7, 0xaf, 0x5f, 0xbb,
 0xc5, 0x61, 0xb7, 0x20, 0xcb, 0x57, 0x1f, 0x70, 0xbd, 0xd3, 0xd3, 0x53, 0xd1,
 0xc0, 0x46, 0xc8,
 0x79, 0x3b, 0xff, 0x10, 0x47, 0xc4, 0xcb, 0xe1, 0x4f, 0x0f, 0x51, 0x25, 0x2f, 0xce, 0x1c, 0x3d,
 0x3a, 0x72, 0xa7, 0x3f, 0x01, 0x00, 0x00, 0xff, 0xff, 0xf4, 0xb4, 0x37, 0x45, 0x2c, 0x01, 0x00,
 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
 fmt "fmt"
```

```
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {
 DeviceSerialNumber   string   `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-"`
 XXX_unrecognized     []byte   `json:"-"`
 XXX_sizecache        int32    `json:"-"`
}

func (m *ZtpLicenseDevice)
 Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}
```

```
var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
 if m
 != nil {
  return m.DeviceSerialNumber
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

1.352 robot-infra-utils 1.0.2-0.20230314091015-38af2f7704cc

1.352.1 Available under license :

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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```
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import (
  dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
 Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
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1.355 boringssl 0.0.0-20200622213623-75b288015ac9

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1.356 zap 1.7.0

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1.358 go-socket-io 0.0.0-20170525141029-5447e71f36d3

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1.359 gorilla 1.4.1

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1.360 gjson 1.11.0

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1.361 influxdb 1.9.5

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1.362 crosswork-nca 4.5.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
```

```
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.364 nettle 3.5.1+really3.5.1-2ubuntu0.2

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1.365 grpc-gateway 1.16.0

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1.366 cryptography 37.0.4

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1.367 psutil 5.6.7

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1.368 python-certifi 2021.10.8

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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1.369 atomic 1.7.0

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1.370 hashicorp-go-version 1.2.1

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1.371 gopkg.in-yaml 2.4.0

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1.372 go-cache 2.1.0+incompatible

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1.373 goprotobuf 1.4.3

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1.374 xxhash 2.1.1

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1.375 toml 0.3.1

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1.376 gorilla 1.4.2

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1.377 go-jmespath 0.4.0

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1.378 go.uber.org/atomi 1.10.0

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1.379 go-humanize 1.0.0

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1.380 pyparsing 2.4.7

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1.381 six 1.16.0

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1.382 protobuf 1.28.1

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1.383 spew 1.1.1

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1.384 backoff 1.0.0

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1.385 errors 0.9.1

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1.386 opentracing-go 1.2.0

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1.388 gopkg.in-yaml 2.4.0

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1.389 packaging 21.3

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1.390 pyserial 3.5

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1.393 bcrypt 3.2.0

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1.395 coreutils 8.30-3ubuntu2

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1.396 expat 2.2.9-1ubuntu0.6

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1.397 libc-utils 0.7.2-r3

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1.398 inotify 0.2.10

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1.399 alpine-baselayout-data 3.4.0-r0

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pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004

```
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
```

```
build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
```

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depends="python flake8"
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```
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"

_builddir="$srcdir"/$_pkgname-$pkgver
prepare() {
 local i
 cd "$_builddir"
 for i in $source; do
  case $i in
  *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
  esac
 done
}

build() {
 cd "$_builddir"
 python setup.py build || return 1
}

package() {
 cd "$_builddir"
 python setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b  flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
  flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46  flake8-copyright-0.1.tar.gz"
```

mini_sendmail - accept email on behalf of real sendmail

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
```

```
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
```

1.400 audit 2.8.5-2ubuntu6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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1.408 zlib 1.2.13-r0

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  The data format used by the zlib library is described by RFCs (Request for
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*/
```

1.409 python-pkg-resources 45.2.0-1ubuntu0.1

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1.410 bzip2 1.0.8-2

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.411 htop 2.2.0-2build1

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1.412 libpkit 0.23.20-1ubuntu0.1

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1.413 acl 2.2.53-6

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1.414 python 3.8.10-0ubuntu1~20.04.5

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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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
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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All
 Python releases are Open Source (see http://www.opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making
changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed
for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary

one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because
of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference
between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative
work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply
a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the
work with a written offer, valid for at
least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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IS LICENSED FREE OF CHARGE, THERE IS NO
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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
<name of author>

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modify it under the terms of the GNU Library General Public
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You should have received a copy of the GNU Library General Public
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Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.
Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
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GNU General Public License for most of our software; it applies also to
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When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This

License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source
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1.425 python-pip 22.3.1

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(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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BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.428 iputils 20190709-3

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1.430 python 3.10.10-r0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization

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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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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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*/

/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

1.434 procps 3.3.17-r2

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

1.435 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

1.435.1 Available under license :

/* CMU libsasl
* Tim Martin
* Rob Earhart
* Rob Siemborski
*/
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* Tim Martin
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1.436 libintl 0.21.1-r1

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative
of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

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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
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
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operating system, as well as its variant, the GNU/Linux operating
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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
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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
root function must still compute square roots.)
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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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it
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Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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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,
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distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
 and (2) will operate
properly with a modified version of the library, if the user installs
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@page
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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

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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

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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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^L
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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1.437 pyparsing 3.0.9

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1.438 supervisor 4.2.4

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1.439 libcap 2.32-1

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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1.446 curl 7.68.0-1ubuntu2.18

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License Mixing
==========

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem
was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

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libssh2

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1.447 findutils 4.7.0-1ubuntu1

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.451 gnutls 3.6.13-2ubuntu1.8

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Corresponding Source in the same
way through the same place at no
further charge. You need not require recipients to copy the
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1.452 ncurses 6.3_p20221119-r0

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1.454 python-pip 20.0.2-5ubuntu1.8

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contextlib2 is a derivative of the contextlib module distributed by the PSF
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.459 nghttp2 1.40.0-1build1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.460 mpdecimal 2.5.1-r1

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1.465 gnutls 3.6.13-2ubuntu1.6

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```
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## version 0.1
##
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1.466 debianutils 4.9.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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a
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0

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A ``covered work'' means either the unmodified Program or a work based on the Program.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable

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@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer,
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@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through
the same place at no
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@item
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@end enumerate

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
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libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/   (for prereleases)
ftp://sourceware.org/pub/newlib/   (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language   Compiler package Library package   Documentation

Ada
gnat-9 libgnat-9 gnat-9-doc
BRIG gccbrig-9 libhsail-rt0
C gcc-9 gcc-9-doc
C++ g++-9 libstdc++6 libstdc++6-9-doc
D gdc-9
Fortran 95 gfortran-9 libgfortran3 gfortran-9-doc
Go gccgo-9 libgo0
Objective C gobjc-9 libobjc2
Objective C++ gobjc++-9
Modula-2 gm2-9 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-9-dbg		libstdc++6-9-pic
D	libphobos-9-dev			

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4
GCC intrinsics (platform-dependent)
gcc-9-base Base files common to all compilers
gcc-9-soft-float Software floating point (ARM only)
gcc-9-source The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9 GNAT version library

C:
cpp-9, cpp-9-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which

can also run 64-bit code, Debian provides
 additional packages with names
beginning with 'lib64' instead of 'lib'. These packages contain 64-bit
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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp

- libstdc++-v3
- libobjc
- libgfortran
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D:
gdc-9 GNU D Compiler
libphobos-9-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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./gm2-libs/SFIO.mod:
./gm2-libs/MathLib0.mod:
./gm2-libs/gdbif.mod:
./gm2-libs/M2EXCEPTION.mod:
./gm2-libs/SFIO.def:
./gm2-libs/StringConvert.mod:
./gm2-libs/StringConvert.def:
./gm2-libs/config-host.in:
./gm2-libs/Indexing.mod:
./gm2-libs/errno.def:

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man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c

src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
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1.473 brotli 1.0.9-r9

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1.474 cdebconf 0.251ubuntu1

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1.475 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

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3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
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```
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
                 | NAME [Details] [Repeater]
                 | '(' Alternatives ')' [Repeater]
                 | '[' Alternatives ']'
  )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'
```

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py

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* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
*
 /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
 /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
 /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
 /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

file.write('License: %s\n' % self.get_license())

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
No license file was found, but licenses were detected in source scan.

version.

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

1.476 libseccomp 2.5.1-1ubuntu1~20.04.2

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1.480 procps 3.3.16-1ubuntu2.3

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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1.481 libsemanage-common 3.0-1build2

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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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1.482 curl 7.88.1-r1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.485 sensible-utils 0.0.12+nmu1

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1.486 libssl3 3.0.8-r0

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1.487 wget 1.20.3-1ubuntu2

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1.489 e2fsprogs 1.45.5-2ubuntu1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
```

```
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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Theodore Ts'o
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part of
its purpose remains meaningful.

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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1.490 supervisor 4.2.4

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1.493 pcre 8.39-12build1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.494 libtasn 4.16.0-2

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1.498 tdb 1.45.5

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1.499 pam 1.3.1-5ubuntu4.6

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1.500 libsepol 3.0-1

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1.501 base-passwd 3.5.47

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1.504 base-files 11ubuntu5.7

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The End

1.505 py3-pip 22.3.1-r1

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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
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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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
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
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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created specifically to own Python-related Intellectual Property.
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Release Derived Year Owner GPL-

	from		compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI yes
1.6	1.5.2	2000	CNRI no
2.0	1.6	2000	BeOpen.com no
1.6.1	1.6	2001	CNRI yes (2)
2.1	2.0+1.6.1	2001	PSF no
2.0.1	2.0+1.6.1	2001	PSF yes
2.1.1	2.1+2.0.1	2001	PSF yes
2.1.2	2.1.1	2002	PSF yes
2.1.3	2.1.2	2002	PSF yes
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1.506 sysv-init 2.96-2.1ubuntu1

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1.507 zlib 1.2.11.dfsg-2ubuntu1.5

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/* gun.c -- simple gunzip to give an example of the use of inflateBack()
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  Version 1.7 12 August 2012 Mark Adler */

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/* gzwrite.c -- zlib functions for writing gzip files
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/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
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For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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/* gzlog.h
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*/

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/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
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/* inflate.h -- internal inflate state definition
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Found in path(s):
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/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

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Changes

See header of zip.h

*/

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/* zconf.h -- configuration of the zlib compression library
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
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* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file test/example.c which also tests that the library is working correctly. Another example is given in the file test/minigzip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

 The deflate format used by zlib was defined by Phil Katz. The deflate and
 zlib specifications were written by L. Peter Deutsch. Thanks to all the
 people who reported problems and suggested various improvements in zlib; they
 are too numerous to cite here.

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jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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 jloup@gzip.org   madler@alumni.caltech.edu

 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

        For more info read MiniZip_info.txt

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      Changes

      See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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 version 1.2, 11 Oct 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean

./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so: symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers

and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and
nature of the changes in zlib.h, as well as in ChangeLog and README, along
with the dates of the alterations. The origin should include at least your
name (or your company's name), and an email address to contact for help or
issues with the library.

Note that distributing a compiled zlib library along with zlib.h and
zconf.h is also a source distribution, and so you should change
ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes
in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any
data types being limited to 32-bits in length. If you have any
difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than
does PKZIP and zlib. However, you can look in zlib's contrib/blast
directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use
Z_FULL_FLUSH, carefully write all the pending data at those points, and
keep an index of those locations, then you can start decompression at those
points. You have to be
careful to not use Z_FULL_FLUSH too often, since it
can significantly degrade compression. Alternatively, you can scan a
deflate stream once to generate an index, and then use that index for
random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There
were working ports of zlib 1.1.4 to MVS, but those links no longer work.
If you know of recent, successful applications of zlib on these operating
systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to

understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General
Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.508 glibc 2.31-0ubuntu9.9

1.508.1 Available under license :

/* Test program for the gcc interface.
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$Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
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#
Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
$Log: errnolist.a,v $
Revision 3.0 1993/08/18 12:04:35 ram
Baseline for dist 3.0 netwide release.
#
#
This is a simple-minded awk script to generate an initialization for
sys_errnolist on systems that don't have it.
This file now depends only on sys/errno.h error numbers under maxerr being
in order. It will complain and die if not. NOTE: It will still produce
a compilable output file, even with errors, so you must check the output.

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If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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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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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.

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A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise,
 if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
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directing the user to the copy of
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@enumerate a
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Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
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 and (2) will operate
properly with a modified version of the library, if the user installs

one, as long as the modified version is interface-compatible with the
version that the work was made with.

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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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@page
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@ifinfo
@center END OF TERMS AND CONDITIONS

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@page
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and a brief idea of what it does.}
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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`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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1.514 py3-six 1.16.0-r3

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Version 2, June 1991

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1.517 zlib 1.2.11.dfsg-2ubuntu1.5

1.517.1 Available under license :

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/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
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/* gzwrite.c -- zlib functions for writing gzip files
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*/

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/* inffast.h -- header to use inffast.c
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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
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/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

        For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

      crypt.c (full version) by Info-ZIP.   Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

      This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

       Changes in unzip.c

      2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos

2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
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/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
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/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
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/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
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/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

 Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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 Jean-loup Gailly   Mark Adler
 jloup@gzip.org   madler@alumni.caltech.edu

 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

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For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
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* version 2.2, 14 Aug 2012
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
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/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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*/

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at

the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
 for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/
 .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
OSF/1 2.1 it works
when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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jloup@gzip.org madler@alumni.caltech.edu

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

---

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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not be removed or altered from any source distribution.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain
Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved
version 1.2, 11 Oct 2012

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Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

  Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See

* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte

data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so: symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz*
functions use stdio library routines, and most of zlib's functions use the
library memory allocation routines by default. zlib's *Init* functions
allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a
single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So
what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In
particular, the final version number needs to be changed to "f", and an
identification string should be appended to ZLIB_VERSION. Version numbers
x.x.x.f are reserved for modifications to zlib by others than the zlib
maintainers. For example, if the version of the base zlib you are altering
is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and
ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also
update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and
nature of the changes in zlib.h, as well as in ChangeLog and README, along
with the dates of the alterations. The origin should include at least your
name (or your company's name), and an email address to contact for help or
issues with the library.

Note that distributing a compiled zlib library along with zlib.h and
zconf.h is also a source distribution, and so you should change
ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes
in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be
careful to not use Z_FULL_FLUSH too often, since it
can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks

of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.518 bash 5.0-6ubuntu1.1

1.518.1 Available under license :

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1.520 ncurses 6.2-0ubuntu2

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
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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
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1.525 kerberos 1.17-6ubuntu4.3

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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/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
kprop/kpropd_rpc.c
kprop/kproplog.c

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.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
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.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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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
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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into
ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3
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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
```

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* I'll try to keep a version up to date.  I can be reached as follows:
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*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
```

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.\" * I'll try to keep a version up to date.  I can be reached as follows:
```

.\" * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1
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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile

1.528 xz 5.2.4-1ubuntu1

1.528.1 Available under license :

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1.535 libssh 0.9.3-2ubuntu2.2

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1.536 py3-parsing 3.0.9-r0

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1.537 drill 1.8.3-r0

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1.538 libnsl 2.31

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1.541 mime-support 3.64ubuntu1

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1.542 libcrypt 4.4.10-10ubuntu4

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1.543 pam 1.5.2-r1

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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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*
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
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* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

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.\" @(#)bitstring.3 5.1
 (Berkeley) 12/13/89
.\"

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.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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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
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any comp.sources.unix archive. You will also need to hack the code some.

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into

ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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1.546 util-linux 2.34-0.1ubuntu9.3

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1.548 keyutils 1.6-6ubuntu1.1

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combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire
combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software
only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and 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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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.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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and can be reasonably considered independent and separate
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Thus, it is not the intent of this section to claim rights or contest
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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which
must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore
covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.549 pam 1.3.1-5ubuntu4.3

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1.550 ubuntu-keyring 2020.02.11.4

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1.551 gdbm 1.23-r0

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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
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"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
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1.552 nghttp2 1.51.0-r0

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.553 libc 2.31-0ubuntu9.9

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==============

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==========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called
ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
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Mersenne Twister

The `_random' module includes code based on a download from
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
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 which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.564 future 0.18.2-1.ph3

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.566 rtmpdump 2.4+20151223.gitfa8646d.1-2build1

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1.568 diffutils 3.7-3

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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^L
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.582 base-files 11ubuntu5.5

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1.584 urllib3 1.25.8-2ubuntu0.1

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Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
Source: https://pypi.org/project/urllib3/

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Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>

 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
MIT

1.585 gmp 6.2.0+dfsg-4

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.586 e2fsprogs 1.45.5-2ubuntu1.1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card

<card@masi.ibp.fr>.

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
```

```
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.587 libxcrypt 4.4.10-10ubuntu4

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1.588 gzip 1.10-0ubuntu4

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1.589 systemd 245.4-4ubuntu3.20

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copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
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(For example, a function in a library to compute square roots has

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Any executables containing that work also fall under Section 6,
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a)
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.600 python-pip 20.0.2-5ubuntu1.6

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.
In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes

3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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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
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All Python releases are Open Source (see http://www.opensource.org for
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
```

```
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

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pkgname=perl-bsd-resource
```

```
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
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sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"

_builddir="$srcdir"/$_pkgname-$pkgver
prepare() {
 local i
 cd "$_builddir"
 for i in $source; do
  case $i in
  *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
  esac
 done
}

build() {
 cd "$_builddir"
 python setup.py build || return 1
}

package() {
 cd "$_builddir"
 python setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b  flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
  flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46  flake8-copyright-0.1.tar.gz"
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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver
```

```
prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
```

1.602 libffi 3.3-4

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The libffi source distribution contains certain code that is not part
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testing of libffi. This includes the msvcc.sh script used to wrap the
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1.603 pq 1.10.4

1.603.1 Available under license :

```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
```

```
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}
```

```
// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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