

# Open Source Used In Crosswork Change Automation and Health Insight 4.3.0

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THE BASIC LIBRARY FUNCTIONS
---

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Cambridge, England.

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# 1.2 c-ares 1.14.0

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# 1.4 python-certifi 2019.11.28

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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 $

# 1.5 distlib 0.3.0

## 1.5.1 Available under license :

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==========

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |

| | | | | |
|---|---|---|---|---|
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1 | 2010 | PSF | yes |
| 3.2 | 3.1 | 2010 | PSF | yes |

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

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# 1.9 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
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lib/csharp/src/Protocol/TMessageType.cs
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lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs

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

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

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```
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L. Peter Deutsch
ghost@aladdin.com

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---
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# 1.18 html5lib-python 1.1

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# 1.25 pyparsing 2.4.6

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# 1.26 lz4 3.1.0

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# 1.28 queue 1.1.0

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# 1.29 reflect2 1.0.1

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# 1.30 lockfile 0.12.2

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file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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# 1.52 python-requests-unixsocket 0.2.0-2

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package api

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

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights
reserved\.)*
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(//|#) license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
 "tools.go": true, // This file requires another comment above the license.
 "internal/third_party/uritemplates/uritemplates.go":      true, // This file is licensed to an individual.
 "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t
 *testing.T) {
 err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if skip[path] {
   return nil
  }

  if err != nil {
   return err
  }
```

```
 if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
  return nil
 }

 src, err := ioutil.ReadFile(path)
 if err != nil {
  return nil
 }

 // Verify that the license is matched.
 if !sentinel.Match(src) {
  t.Errorf("%v: license header not present", path)
  return nil
 }

 // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
 if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
  t.Errorf("%v: license header not at the top", path)
 }
 return nil
})
if err != nil {
 t.Fatal(err)
}
}
```

# 1.54 gosqlite 1.14.6

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# 1.55 packaging 20.8

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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 * Non-multipart encoding for POST requests

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 * 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.

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

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 regardless of case when redirecting to cross-site

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

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

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

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
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# 1.68 urllib3 1.25.8

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SOFTWARE.
# Contributions to the urllib3 project

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## Contributors

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 * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
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* [Your name or handle] <[email or website]>
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# 1.69 python-pip 20.0.2

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

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|---|---|---|---|---|
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |

| | | | | |
|---|---|---|---|---|
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3 | 3.2 | 2012 | PSF | yes |

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- Chris McDonough, 2011/02/16
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year, the PythonLabs team moved to Digital Creations (now Zope
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| Release | Derived | Year | Owner | GPL- |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| | from | | | compatible? (1) |
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
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| 2.7 | 2.6 | 2010 | PSF | yes |

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

principal author, although it includes many contributions from others.

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

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

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

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

| | | | | |
|---|---|---|---|---|
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
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| 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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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
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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
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| 2.5 | 2.4 | 2006 | PSF | yes |
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| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
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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

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

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

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |

| | | |
|---|---|---|
| 3.3 | 3.2 | |
| 2012 | PSF | yes |

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Python 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
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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 |
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| 2.7 | 2.6 | 2010 | PSF | yes |

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

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

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |

| | | | | |
|---|---|---|---|---|
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
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| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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# 1.74 msgpack 1.0.2

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# Contributions to the urllib3 project

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 * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
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 coverage

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 * 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

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

# 1.77 python-requests 2.22.0

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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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<one line to give the program's name and a brief idea of what it does.>
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# 1.90 py3-pip 20.3.4-r1

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Version 2.1, February 1999

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

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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 |
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| | | | | |
|---|---|---|---|---|
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
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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 | 2010 | PSF | yes |
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| 2.6 | 2.5 | 2008 | PSF | yes |
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| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
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| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
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# 1.105 python-setuptools 52.0.0

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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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| 0.9.0 thru 1.2 | | 1991-1995 | CWI yes |
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| 2.0 | 1.6 | 2000 | BeOpen.com no |
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| 2.6.4 | 2.6.3 | 2009 | PSF yes |
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That's all there is to it!
This package contains a modified version of ca-bundle.crt:

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

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

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

# 1.107 py3-setuptools 52.0.0-r4

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# 1.108 progress 1.6

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# 1.110 py3-ordered-set 4.0.2-r2

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# 1.111 importlib-metadata 4.8.1

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# 1.112 typing-extensions 3.10.0.2

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

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

software.

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

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

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

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

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

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# 1.122 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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# 1.124 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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# 1.127 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492

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# 1.128 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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# 1.129 prometheus-common 0.9.1

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* /grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
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Found in path(s):
* /grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java

# 1.137 x-oauth2 0.0.0-20200902213428-5d25da1a8d43

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# 1.140 gogoprotobuf 1.3.2

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

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# 1.141 jcmturner-rpc 2.0.3

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# 1.144 jcmturner-dnsutils 2.0.0

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# 1.160 google-go-cmp 0.5.4

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# 1.161 json-iterator-go 1.1.10

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# 1.162 prometheus-procfs 0.2.0

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# 1.170 gomemcache 0.0.0-20190913173617-a41fca850d0b

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# 1.171 felixge-httpsnoop 1.0.1

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# 1.182 golcs 0.0.0-20170316035057-ecda9a501e82

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# 1.183 xorm.io-core 0.7.3

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# 1.185 log15 0.0.0-20180818164646-67afb5ed74ec

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# 1.187 gopkg-in/mail 2.3.1

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# 1.188 facebookgo-structtag 0.0.0-20150214074306-217e25fb9691

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# 1.189 com 1.0.1

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# 1.190 vividcortex-mysqlerr 0.0.0-20170204212430-6c6b55f8796f

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# 1.194 linkedin-goavro 2.9.7

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# 1.196 inject 0.0.0-20180706035515-f23751cae28b

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# 1.197 go-datemath 0.1.1-0.20200323150745-74ddef604fff

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# 1.199 go-macaron-gzip 0.0.0-20160222043647-cad1c6580a07

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# 1.201 gopkg-in/ldap 3.0.2

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# 1.202 benbjohnson-clock 0.0.0-20161215174838-7dc76406b6d3

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# 1.203 golang-genproto 0.0.0-20210716133855-ce7ef5c701ea

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# 1.204 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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--

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
```

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        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
```

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      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
```

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        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
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```
      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
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        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
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          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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// limitations under the License.
-- ****************************************************************************
-- 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,
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                clmgmtLicenseBackupFile,
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                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
```

# 1.205 prometheus-procfs 0.7.3

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

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# 1.206 cffi 1.15.0

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mgo - MongoDB driver for Go

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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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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# 1.221 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

# 1.222 opentracing-go-stdlib 1.0.0

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# 1.231 mattermost-xml-roundtrip-validator 0.0.0-20201213122252-bcd7e1b9601e

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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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```
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
}
```

# 1.236 cortexproject-cortex 1.4.1-0.20201022071705-85942c5703cf

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*/

package minio

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

```
 "net/url"

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

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

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

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

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

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

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

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

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

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
```

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

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

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

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

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

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

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

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
```

```
 contentLength:    int64(len(lhData)),
 contentMD5Base64: sumMD5Base64(lhData),
 contentSHA256Hex: sum256Hex(lhData),
 }

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

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

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

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

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
```

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

 return &lh.Status, nil
}
```

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package spec

import (
 "encoding/json"

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

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

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

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

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

}
return swag.ConcatJSON(b1, b2), nil
}
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
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package api

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 return string(data), nil
}

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

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
```

```
 r.body = strings.NewReader(license)
 _,
 resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()

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

 return &reply, nil
}
```

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uriparser - RFC 3986 URI parsing library

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* folly/Portability.h
* folly/lang/Align.h
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//
// For more information: http://goo.gl/8us55a#licenseObject
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 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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# 1.244 golang-genproto 0.0.0-20201022181438-0ff5f38871d5

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* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/BridgeOptions.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/SockJSServer.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/SockJSServerOptions.java
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Found in path(s):
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/WebSocketTransport.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/XhrTransport.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/Session.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/JsonCodec.java
*
 /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/EventBusBridgeHook.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/EventBusBridge.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/RawWebSocketTransport.java
* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/TransportListener.java
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* /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/Transport.java
*
 /vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/EventSourceTransport.java

# 1.251 cloud-google-com-go 0.70.0

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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()
 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 path == "bigtable/cmd/cbt/cbtdoc.go" {
   // Automatically generated.
   return nil
  }
  if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
   // BSD license, which is compatible, is embedded in the file.
   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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# 1.257 influxdb 1.3.8

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# 1.258 looplab-fsm 0.0.0-20170404094036-bcc3636384ce

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# 1.259 go-socket-io 0.0.0-20170525141029-5447e71f36d3

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# 1.266 crosswork-robot-api 4.1.0.24

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

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

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

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

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

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

func (m *ZtpLicenseDevice) Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_e27237926d594488, []int{0}
}
func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
```

```
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(dst, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice
 proto.InternalMessageInfo

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

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

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

var fileDescriptor_cw_ztp_license_device_e27237926d594488 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13,
 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42, 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

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

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

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

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

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

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

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

```
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var
 xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

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

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

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

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

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

var fileDescriptor_cw_ztp_license_f6745968de738545 = []byte{
 // 222 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
 0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
 0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7,
 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
 0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48, 0x58, 0x5f, 0xc2, 0xfe,
 0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
 0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
 0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
```

```
 0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
 0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
 0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
 0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
 0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
 0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01,
 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

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

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"

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

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

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

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399, []int{0}
}
func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
```

```
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(dst, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func
 (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

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

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

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

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

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

var fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399 = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
```

0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7,
0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
0x65, 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
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0x77, 0x91, 0x55, 0x0f,
0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
0x00, 0xff, 0xff, 0x66, 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}

# 1.267 grpcio 1.41.1

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# 1.268 grpcio-tools 1.41.1

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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/xds_server_builder.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/ext/admin_services.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/event_engine/port.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/test/simpler.proto
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/event_engine/endpoint_config.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/test/simple.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/test/complicated.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/authorization_policy_provider.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/test/flawed.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/event_engine/event_engine.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/main.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
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/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/any_lite.cc
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/grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/generated_message_util.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/zero_copy_stream.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/any_test.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/type_resolver_util.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/stl_util.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/subprocess.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/testing/file.cc
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/message.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/internal/utility.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/status.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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/grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/message_differencer_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/repeated_field_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/_proto/google/protobuf/struct.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/plugin.cc
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/wire_format_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/repeated_field_reflection_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/_proto/google/protobuf/api.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/port_undef.inc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/internal/testdata/oneofs.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/package_info.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/_proto/google/protobuf/compiler/plugin.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/reflection_ops.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/internal/type_info_test_helper.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/stringpiece_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_primitive_field.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/unittest_optimize_for.proto
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/scc.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/internal/type_info.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/dynamic_message.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/field_mask_utility.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_kotlin_generator.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_enum_field.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_message_builder.cc

* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/text_format_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/wire_format.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_bootstrap_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_plugin_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/extension_set.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map_test_util.inc
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_source_generator_base.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map_type_handler.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/proto3_arena_lite_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/printer.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/field_comparator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectsource.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_generator.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_helpers.cc
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/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/macros.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/port.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/parse_context.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/wire_format_lite.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/drop_unknown_fields_test.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/_proto/google/protobuf/descriptor.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/test_util.inc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/test_util_lite.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/io_win32.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field.h
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field_lite.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/json_stream_parser.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/proto_writer.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/internal/type_info.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_primitive_field.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-

1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_primitive_field.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/struct.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message_field.cc
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_service.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_enum.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_extension_lite.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/object_writer.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_file.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/testdata/proto3.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/unittest_preserve_unknown_enum2.proto
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_map_field.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/mock_code_generator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_file.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/structured_objectwriter.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/common.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/common.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_context.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/test_util.cc
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/proto3_lite_unittest.inc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/util/internal/json_objectwriter.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_primitive_field.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/stubs/bytestream_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/tokenizer_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/unknown_field_set.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/metadata.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/status_macros.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/arenastring.h
*

/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/gzip_stream.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/io_win32_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field_lite.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/map_proto2_unittest.proto
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_file.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/any_test.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map_test_util_impl.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/parser.h
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/arena_test_util.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/io/coded_stream.h
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Found in path(s):
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/_protoc_compiler.pyx
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/_parallel_compile_patch.py
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/BUILD
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/command.py
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/test/protoc_test.py
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/setup.py
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/protoc_lib_deps.py
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/__init__.py
*
/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_tools/protoc.py
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_version.py
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*
*/

Found in path(s):
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/health_check_service_interface.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/resource_quota.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/rpc_service_method.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/gpr_types.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/node_generator_helpers.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/status_code_enum.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/core_codegen.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/compression_types.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/server_builder_plugin.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/php_generator.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/rpc_service_method.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/php_generator_helpers.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/create_channel_posix.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/test/server_context_test_spouse.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/php_plugin.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/status.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/server_posix.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/node_generator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/connectivity_state.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/grpc_cronet.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/propagation_bits.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/grpc_root/include/grpcpp/ext/health_check_service_server_builder_option.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/grpc_security_constants.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/server_initializer.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/php_generator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/channel_interface.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/sync.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/config.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/grpc_library.h
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Metadata-Version: 1.1

Name: grpcio-tools
Version: 1.41.1
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

Found in path(s):
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/PKG-INFO
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpcio_tools.egg-info/PKG-INFO
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/map_util.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/async_stream.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/server_callback.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-
1.41.1/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.h
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*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/grpc_types.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/structurally_valid_unittest.cc
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```
/** TLS server authorization check arguments, wraps
*  grpc_tls_server_authorization_check_arg. It is used for experimental
*  purposes for now and it is subject to change.
*
*  The server authorization check arg contains all the info necessary to
*  schedule/cancel a server authorization check request. The callback function
 *  must be called after finishing the schedule operation. See the description
*  of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
*  more details. **/
```

Found in path(s):
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/tls_credentials_options.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/server_builder.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/grpc.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/channel_argument_option.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/test/mock_stream.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/ruby_generator_string-inl.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/sync.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/metadata_map.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/alarm.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/rpc_method.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/python_generator_helpers.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/log_windows.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/auth_metadata_processor.h

*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/csharp_plugin.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/auth_context.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/sync_generic.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/atm_windows.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/atm.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/csharp_generator_helpers.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/alloc.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/server_context.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/sync_stream.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/sync_generic.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/stub_options.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/ruby_generator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/slice_buffer.h
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/client_interceptor.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/cpu.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/atm_gcc_atomic.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/rpc_method.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/schema_interface.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/objective_c_generator_helpers.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/node_plugin.cc
*
 /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/call.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/slice.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/sync_windows.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/server_interceptor.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/status_code_enum.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/cpp_generator.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/workaround_list.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/status.h
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*

/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/generic/generic_stub.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/port_platform.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/serialization_traits.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/client_context.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/atm.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/config.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/python_private_generator.h
*

/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/byte_buffer.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/time.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/method_handler.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/python_generator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/ruby_plugin.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/status.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/channel.h
*

/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/sync_windows.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/cpp_generator_helpers.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/slice.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/grpcpp.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/objective_c_generator.cc
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/csharp_generator.cc
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/impl/codegen/slice.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/credentials.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/cpp_plugin.cc
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*

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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/objective_c_plugin.cc

* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/async_stream.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/validate_service_config.h

* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/cronet_credentials.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/config_protobuf.h
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/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/sync.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/alts_context.h
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* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/message_allocator.h

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# 1.276 alpine-keys 2.4-r1

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# 1.277 py3-retrying 1.3.3-r2

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# 1.278 py3-cachecontrol 0.12.10-r0

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Metadata-Version: 2.1
Name: CacheControl
Version: 0.12.10
Summary: httplib2 caching for requests

Home-page: https://github.com/ionrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
License: UNKNOWN
Description: ..
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==========
CacheControl
==========

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:target: https://pypi.python.org/pypi/cachecontrol
:alt: Latest Version

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

CacheControl is a port of the caching algorithms in httplib2_ for use with
requests_ session object.

It was written because httplib2's
better support for caching is often
mitigated by its lack of thread safety. The same is true of requests in
terms of caching.

Quickstart
==========

.. code-block:: python

import requests

from cachecontrol import CacheControl

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

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

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

For more info, check out the docs_

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

Keywords: requests http caching web
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Classifier: Development Status :: 4 - Beta
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Topic :: Internet :: WWW/HTTP
Requires-Python: >=3.6
Provides-Extra: redis
Provides-Extra: filecache

Found in path(s):
* /cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/PKG-INFO
* /cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO

# 1.279 py3-charset-normalizer 2.0.7-r0

## 1.279.1 Available under license :

Included and Redistributed Files
---

17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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# 1.280 py3-contextlib 21.6.0-r1

## 1.280.1 Available under license :

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and are hence distributed under the Apache License 2.0 rather than under the
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A. HISTORY OF THE SOFTWARE
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contextlib2 is a derivative of the contextlib module distributed by the PSF
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was added only in Python 2.5, the licenses for earlier Python versions are
not applicable and have not been included.

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a

non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3 | 3.2 | 2012 | PSF | yes |

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# 1.281 py3-pep 0.12.0-r0

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# 1.282 py3-requests 2.26.0-r1

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# 1.283 py3-tomli 1.2.2-r0

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# 1.284 py3-distlib 0.3.3-r0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member
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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 |
| 3.2 | 3.1 | 2010 | PSF | yes |

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# 1.297 pq 1.9.0

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DEALINGS IN THE SOFTWARE.
// +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}
}
```

# 1.298 attrs 21.4.0

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# 1.299 x-crypto 0.0.0-20211115234514-b4de73f9ece8

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# 1.300 prometheus-client 1.8.0

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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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# 1.301 ansible 2.1

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# 1.302 jackc-pgproto 2.2.0

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# 1.304 pq 1.10.4

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```
//go:build go1.10
// +build go1.10

package pq

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

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

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

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

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
```

```
 return c, err
}

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

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

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 * Wait for document loaded before starting the execution
 */

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/*! Check if previously processed */

/*! sequence config was passed as #1 */

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# 1.308 etcd-client 3.5.2

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//! moment-timezone.js

//! version : 0.5.28
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Found in path(s):
* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages_extracted/wheel/103/pkg_resources-0.0.0.dist-info/METADATA

# 1.324 pycparser 2.20

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pycparser -- A C parser in Python

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,

analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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Javassist provides two levels of API: source level and bytecode level. If the users use the source- level API,
they can edit a class file without knowledge of the specifications
of the Java bytecode.
The whole API is designed with only the vocabulary of the Java language.
You can even specify inserted bytecode in the form of source text; Javassist compiles it on the fly.
On the other hand, the bytecode-level API allows the users to directly edit a class file as other editors.

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MySQL Connector/J 8.0

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

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Name: jquery Tooltip
Link: http://bassistance.de/jquery-plugins/jquery-plugin-tooltip/
License: Dual licensed: MIT (Expat) or GPL

Name: jquery placeholder
Link: http://mths.be/placeholder
License: Dual licensed: MIT (Expat) or GPL

Name: qrcode.js
Link: https://github.com/davidshimjs/qrcodejs
License: MIT

Name: json2.js
Link: http://json.org/
License: Public domain
Notes:
- reference implementation

Name: jshrink
Link: https://github.com/tedivm/jshrink
License: BSD-3-Clause

Name: Sparkline
Link: https://github.com/jamiebicknell/Sparkline
License: MIT

Name: sprintf
Link: http://www.diveintojavascript.com/projects/javascript-sprintf
License: New BSD

Name: upgrade.php
Link: http://upgradephp.berlios.de/
License:
Public domain

Name: Archive Tar
Link: https://pear.php.net/package/Archive_Tar
License: New BSD

Name: Event Dispatcher (and Notification)
Link: https://pear.php.net/package/Event_Dispatcher/
License: New BSD

Name: HTML Common2
Link: https://pear.php.net/package/HTML_Common2/
License: New BSD

Name: HTML QuickForm2
Link: https://pear.php.net/package/HTML_QuickForm2/
License: New BSD

Name: HTML QuickForm2_Renderer_Smarty
Link: http://www.phcomp.co.uk/tmp/Smarty.phps
License: New BSD

Name: MaxMindGeoIP
Link: https://dev.maxmind.com/geoip/legacy/downloadable/#PHP-7
License: LGPL

Name: PclZip
Link: http://www.phpconcept.net/pclzip/
License: LGPL
Notes:
- GPL version not explicitly stated but tarball contains LGPL v2.1

Name: PEAR (base system)
Link: https://pear.php.net/package/PEAR
License: New BSD

Name: PhpSecInfo
Link: http://phpsec.org/projects/phpsecinfo/
License: New BSD

Name: RankChecker
Link: http://www.getrank.org/free-pagerank-script
License:
GPL

Name:  Twig
Link:  https://twig.symfony.com/
License:  BSD

Name:  TCPDF
Link:  https://sourceforge.net/projects/tcpdf/
License:  LGPL v3 or later

Name:  Zend Framework
Link:  https://framework.zend.com/
License:  New BSD

Name: pChart 2.1.4
Link: http://www.pchart.net
License: GPL v3

Name: Chroma.js
Link: https://github.com/gka/chroma.js
License: GPL v3

Name: qTip2 - Pretty powerful tooltips
Link: http://craigsworks.com/projects/qtip2/
License: GPL

Name: Kartograph.js
Link: http://kartograph.org/
License: LGPL v3 or later

Name: Raphal - JavaScript Vector Library
Link: http://raphaeljs.com/
License: MIT (Expat)

Name: iFrame Resizer
Link: https://github.com/davidjbradshaw/iframe-resizer
License: MIT

Name: lessphp
Link: http://leafo.net/lessphp
License: GPL3, MIT (Expat)

Name: Symfony Console Component
Link: https://github.com/symfony/Console
License: MIT (Expat)

Name: AngularJS
Link: https://github.com/angular/angular.js
License:

MIT (Expat)

Name: Mousetrap
Link: https://github.com/ccampbell/mousetrap
License: Apache 2.0

Name: PHP-DI
Link: http://php-di.org/
License: MIT (Expat)

THIRD-PARTY CONTENT

Name: FamFamFam icons - Mark James
Link: http://www.famfamfam.com/lab/icons/
License: CC BY 3.0

Name: Solar System icons - Dan Wiersema
Link: http://www.iconspedia.com/icon/neptune-4672.html
License: Free for non-commercial use
Notes:
- used in Matomo's ExampleUI plugin

Name: flag-icon-css - Lipis
Link: https://github.com/lipis/flag-icon-css
License: MIT (Expat)
Notes:
- used for flag PNGs

Name: Wine project - tahoma.ttf font
Link: http://source.winehq.org/git/wine.git/blob_plain/HEAD:/fonts/tahoma.ttf
License: LGPL v2.1
Notes:
- used in ImageGraph plugin

Name: plugins/Feedback/angularjs/ratefeature/thumbs-down.png
Link: https://www.iconfinder.com/icons/216428/down_thumbs_icon
License: Creative Commons (Attribution-Share Alike 3.0 Unported)

Name:
plugins/Feedback/angularjs/ratefeature/thumbs-up.png
Link: https://www.iconfinder.com/icons/216429/thumbs_up_icon
License: Creative Commons (Attribution-Share Alike 3.0 Unported)

Name: plugins/Insights/images/idea.png
Link: https://www.iconfinder.com/icons/6074/brainstorm_bulb_idea_jabber_light_icon
License: GPL
By: Alessandro Rei - http://www.kde-look.org/usermanager/search.php?username=mentalrey

Name: Material icons ("icon-info2", "icon-outline", "icon-settings", "icon-form", "icon-play", "icon-pause", "icon-replay", "icon-skip-next", "icon-skip-forward", "icon-stop", "icon-fast-forward", "icon-fast-rewind", "icon-bug", "icon-upload", "icon-segmented-visits-log", "icon-clock") in plugins/Morpheus/fonts, and plugins/Morpheus/images/compare.svg
Link: https://design.google.com/icons/
License: Apache License Version 2.0

Name: IcoMoon - Free icons ("icon-funnel", "icon-lab", "icon-archive", "icon-rocket", "icon-embed", "icon-page-performance", "icon-github") in plugins/Morpheus/fonts
Link:
https://icomoon.io/#icons-icomoon
License: GPL

Name: FontAwesome icons ("icon-minus-square", "icon-plus-square", "icon-arrowup", "icon-arrowdown", "icon-outlink") in plugins/Morpheus/fonts
Link: https://fontawesome.com/
License: CC BY 4.0

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chroma.js - JavaScript library for color conversions

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# 1.345 procfs 0.0.11

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# 1.346 lz4 3.3.4

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# 1.356 cortex 1.11.1

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*/

package minio

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

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

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

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

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

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

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

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

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

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

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

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

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

 // Get resources properly escaped and lined up before
 // using them in http request.
```

```
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

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

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

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

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

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

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

```
 nil, err
 }

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

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

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

 return &lh.Status, nil
}
```

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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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https://github.com/golang/protobuf

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```
package api

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

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

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

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

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

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

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

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

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

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

 // Modules is a list
```

```
 of the licensed enterprise modules
 Modules []string `json:"modules"`

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

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

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

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

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

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license
 stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
```

```
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := requireOK(op.c.doRequest(r))
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

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

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

 return &reply, nil
}
```

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* cpp/cmake_modules/{SnappyCMakeLists.txt,SnappyConfig.h} are based on code
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# 1.366 grafana 4.5.2

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```
@import 'mediawiki.mixins.less';
@import '../mmv.mixins.less';

.mw-mmv-permission-box {
 position: relative;
 width: 90%;
 margin: 10px 20px 0;

 &.empty {
  display: none;
 }

 h3 {
  margin: 10px;
  padding: 0;
  color: #54595d;
  font-size: 0.95em;
 }

 .mw-mmv-permission-close {
  display: none;
  position: absolute;
  top: 12px;
  right: 8px;
  width: 16px;
  height: 16px;
  .background-image( 'img/x_gray.svg' );
  cursor: pointer;
 }

 .mw-mmv-permission-text {
  @text-font-size: 0.9em;
  @text-line-height: 1.4;
  @lines-shown: 3;
  position: relative;
  max-height: @lines-shown * @text-line-height * @text-font-size;
  overflow: hidden;
  margin: 0 10px 10px;
  font-size: @text-font-size;
  line-height: @text-line-height;
  color: #54595d;

  .mw-mmv-permission-text-fader {
   position: absolute;
   top: ( @lines-shown - 1 ) * @text-line-height * @text-font-size;
   width: 100%;
   height: @text-line-height * @text-font-size;
   .fade-out-vertical();
```

```
  text-align: right;

  a {
   padding:
 3px 0 0 1em;
   background-color: #fff;
   font-size: 1em;
  }
 }
}

.mw-mmv-permission-html {
 padding: 0 15px 15px;
 display: none;
 max-height: 400px;
 overflow: auto;
}

&.full-size {
 .mw-mmv-permission-close {
  display: block;
 }

 .mw-mmv-permission-text {
  display: none;
 }

 .mw-mmv-permission-html {
  display: block;
  border-top: 1px solid #f8f9fa;
 }
}
}
```

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# 1.368 cells 3.0.1

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==========

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# 1.369 centrifuge 0.2.3

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# 1.370 ldap 3.0.2

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# 1.371 victoriametrics 1.71.0-cluster

### 1.371.1 Available under license :

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/victoria-metrics-amd64-v1-71-0-cluster-tar-gz/vmselect-prod: binary file matches

Found in path(s):
* /bin/grep

## 1.372 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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## 1.373 google-cloud-go 0.70.0

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```
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
```

```
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
```

```
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts :=
```

```
 defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax",
 gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
```

```
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil,
 err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err
 := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl,
 err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(),
 bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
```

```
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
```

```
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
```

```
 API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or
 windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(),
 opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
```

```
 CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
 return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
```

```
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is
 intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return
op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
```

```
 true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:
      c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts

```
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
 error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess",
 fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
    baseUrl.Path = settings.Path
   }
   httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response
= resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if
 err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
```

```
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context,
 settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error
```

```
 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
```

```
nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

# 1.374 grr 4.0.0a-2

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from a designated place, then offering equivalent access to copy the
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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properly with a modified version of the library, if
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gANTDYzY0pcJicoE5UcvP2dEICVvEORwbTumtfWbuDSbXwHqcynVjkJbwxHhRMMeJtjnx4dbb6_wdp2RjOUil
Tb2ob40OWyU0szgpSe2-5XS_F7ixL7vMf00OHFtTDk0Wg_dv15IR3C-
zK8WFWEr4b4POc1P6pRrKOLKIFIKBGGZWF-S-
u3gedAL2VLpFoUCG5FMnnJGv2iNfNYkG20zObn9K6FG5uNq6T0ZvfJIjJYNvXV45mx7jhOg2R5HAkZXlx16iI
v95qlHIvJR6UZKHqWr_Hp3YvaxatkqbFwpXxQU0xtMJO3dXafATFMW_l
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# 1.381 iobroker.web 3.4.9

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{
 "common": {
  "name": "web",
  "version": "5.2.4",
  "title": "WEB server",
  "titleLang": {
   "en": "WEB server",
   "de": "WEB-Server",
   "ru": " ",
   "pt": "Servidor web",
   "nl": "Web Server",
   "fr": "Serveur Web",
   "it": "Server web",
   "es": "Servidor web",
   "pl": "Serwer internetowy",
   "zh-cn": "Web"
  },
  "news": {
   "5.2.4": {
    "en": "Corrected getAdapterInstances method",
    "de": "Korrigierte getAdapterInstances Methode",
    "ru": "  getAdapterInstances",
    "pt": "Mtodo correto getAdapterInstncias",
    "nl": "Vertaling:",
    "fr": "Mthode d'admission corrige",
    "it": "Corretto getAdapterInstances metodo",
    "es": "Mtodo corregido getAdapterInstances",
    "pl": "Poprawiona metoda gotowania AdapterInstance",
    "zh-cn": ""
   },
   "5.2.3": {
    "en": "Allowed to overload the system language",
    "de": "Erlaubt, die Systemsprache zu berlasten",
     "ru": "    ",
    "pt": "Permitido sobrecarregar a linguagem do sistema",
    "nl": "Genoemd om de systeemtaal te overbelasten",
```

```
    "fr": "Permet de surcharger la langue du systme",
    "it": "Consentito di sovraccaricare la lingua di sistema",
    "es": "Permitido sobrecargar el lenguaje del sistema",
    "pl": "Wszystko to byo przecienie jzyka systemowego",
    "zh-cn": ""
   },
   "5.2.2": {
    "en": "Added Cache headers to all static with configurable cache time (default 60s)",
    "de": "Cache-Header zu allen statischen mit konfigurierbaren Cache-Zeit (Standard 60s) hinzugefgt",
    "ru": "  Cache        (  60s)",
    "pt": "Cabealhos Cache adicionados a todos estticos com tempo de cache configurvel (padro 60s)",
    "nl": "Voegde Cache kopers toe aan alle statistieken met configurable cache time (default 60s)",
    "fr": "Ajout des en-ttes de Cache  tous les statiques avec le temps de cache configurable (par dfaut
60s)",
    "it": "Aggiunta di intestazioni Cache a tutte le statiche con tempo di cache configurabile (default 60s)",
    "es": "Cabeceras de cach agregadas a todas las estticas con tiempo de cach configurable (por defecto 60s)",
    "pl": "Added Cache kieruje wszystkimi statycznymi konfigurowalnym czasem pamici (default 60s)",
    "zh-cn": ",(60)"
   },
   "5.2.1": {
    "en": "Do not show requireLog message",
    "de": "Nicht zeigen Log-Nachricht",
    "ru": "     ",
    "pt": "No mostrar necessidade Mensagem de registo",
    "nl": "Toon niet Logisch bericht",
    "fr": "Ne pas montrer besoin Message d ' ouverture",
    "it": "Non mostrare richiesta Messaggio di log",
    "es": "No mostrar necesidad Mensaje de registro",
    "pl": "Nie wymaga wiadomo",
    "zh-cn": " "
   },
   "5.2.0": {
    "en": "Corrected the load of `iobroker.ws` as integrated socket",
    "de": "Das Laden von `iobroker.ws` als integrierter
Socket wurde korrigiert",
    "ru": "  iobroker.ws   .",
    "pt": "Corrigido o carregamento de `iobroker.ws` como soquete integrado",
    "nl": "De belasting van `iobroker.ws` gecorrigeerd als gentegreerde socket",
    "fr": "Correction du chargement de `iobroker.ws` en tant que socket intgr",
    "it": "Corretto il carico di `iobroker.ws` come socket integrato",
    "es": "Se corrigi la carga de `iobroker.ws` como socket integrado",
    "pl": "Poprawiono obcienie `iobroker.ws` jako zintegrowane gniazdo",
    "zh-cn": "iobroker.ws"
   },
   "5.1.2": {
    "en": "Fixed \"Force web-sockets\" mode",
    "de": "Modus \"Web-Sockets erzwingen\" behoben",
    "ru": "  \"Force web-sockets\"",
```

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    "pt": "Corrigido o modo \"Forar web-sockets\"",
    "nl": "Vaste \"Forceer web-sockets\"-modus",
    "fr": "Correction du mode \"Forcer les sockets Web\"",
    "it": "Risolto il problema con la modalit \"Forza web-socket\".",

   "es": "Se corrigi el modo \"Forzar web-sockets\"",
    "pl": "Naprawiono tryb \"Force web-sockets\"",
    "zh-cn": ""
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    "de": "Modus \"Web-Sockets erzwingen\" behoben",
    "ru": "  \"Force web-sockets\"",
    "pt": "Corrigido o modo \"Forar web-sockets\"",
    "nl": "Vaste \"Forceer web-sockets\"-modus",
    "fr": "Correction du mode \"Forcer les sockets Web\"",
    "it": "Risolto il problema con la modalit \"Forza web-socket\".",
    "es": "Se corrigi el modo \"Forzar web-sockets\"",
    "pl": "Naprawiono tryb \"Force web-sockets\"",
    "zh-cn": ""
   }
  },
  "desc": {
   "en": "opens a webserver for other adapters",
   "de": "Stellt webserver fr 'ioBroker Adapter' zur Verfgung",
   "ru": "    'ioBroker '",
   "pt": "abre um servidor web para outros adaptadores",
   "nl": "opent een webserver voor andere adapters",
   "fr": "ouvre un
serveur web pour d'autres adaptateurs",
   "it": "apre un server web per altri adattatori",
   "es": "abre un servidor web para otros adaptadores",
   "pl": "otwiera serwer internetowy dla innych kart",
   "zh-cn": "web"
  },
  "license": "MIT",
  "mode": "daemon",
  "platform": "Javascript/Node.js",
  "loglevel": "info",
  "icon": "web.png",
  "readme": "https://github.com/ioBroker/ioBroker.web/blob/master/README.md",
  "enabled": true,
  "materialize": true,
  "compact": true,
  "keywords": [
   "web",
   "server",
   "www",
```

```
    "express"
  ],
  "extIcon": "https://raw.githubusercontent.com/ioBroker/ioBroker.web/master/admin/web.png",
  "type": "general",
  "stopBeforeUpdate": true,
  "eraseOnUpload": true,
  "webExtendable": true,
  "connectionType": "local",
  "dataSource": "push",
  "localLink": "%web_protocol%://%ip%:%web_port%/",
  "dependencies": [
    {
      "js-controller": ">=3.1.0"
    }
  ],
  "globalDependencies":
[
    {
      "admin": ">=5.1.0"
    }
  ],
  "authors": [
    {
      "name": "bluefox",
      "email": "dogafox@gmail.com"
    }
  ],
  "plugins": {
    "sentry": {
      "dsn": "https://3acf24332d994549bfa3b86e06062c21@sentry.iobroker.net/16"
    }
  },
  "tier": 3
 },
 "native": {
  "port": 8082,
  "auth": false,
  "secure": false,
  "bind": "0.0.0.0",
  "cache": false,
  "socketio": "",
  "usePureWebSockets": false,
  "simpleapi": false,
  "defaultUser": "admin",
  "ttl": 3600,
  "certPublic": "",
  "certPrivate": "",
  "certChained": "",
```

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  "addUserName": false,
  "forceWebSockets": false,
  "compatibilityV2": true,
  "whiteListEnabled": false,
  "leEnabled": false,
  "leUpdate": false,
  "leCheckPort": 80,
  "loginBackgroundColor": "",
  "loginBackgroundImage": false,
  "basicAuth": false,
  "disableExtensions": false,
  "disableStates": false,
  "disableFilesObjects": false,
   "defaultRedirect": "",
  "staticAssetCacheMaxAge": 60,
  "language": ""
},
"instanceObjects": [
  {
    "_id": "",
    "type": "meta",
    "common": {
      "name": "user files and images for background image",
      "type": "meta.user"
    },
    "native": {}
  },
  {
    "_id": "info",
    "type": "channel",
    "common": {
      "name": "Information"
    },
    "native": {}
  },
  {
    "_id": "info.connected",
    "type": "state",
    "common": {
      "role": "state",
      "name": "Info about connected socket clients",
      "type": "string",
      "read": true,
      "write": false,
      "def": ""
    },
    "native": {}
  },
```

```
  {
    "_id": "info.connection",
    "type": "state",
    "common": {
      "role": "indicator.connected",
      "name": "If web server started",
      "type": "boolean",
      "read": true,
      "write": false,
      "def": false
    },
    "native": {}
  }
 ]
}
```

```
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  Version 1.10.0
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# 1.382 f-list-protobufjs 6.9.0

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# 1.384 centrifuge 0.13.0

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# 1.387 golang 1.15.6

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# 1.388 golang 1.16.9

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# 1.390 linux-libc-dev 5.4.0-122.138

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.

```
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
```

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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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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).
*/

# 1.392 robot-telemetry_proto 0.0.0-20220324224147-68d8e0b155a0

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

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

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

jnxLicenseMIB       MODULE-IDENTITY
  LAST-UPDATED    "201906170000Z"
  ORGANIZATION    "Juniper Networks, Inc."
```

```
  CONTACT-INFO
        "Juniper Technical Assistance Center
         Juniper Networks, Inc.
         1133 Innovation Way
         Sunnyvale, CA 94089
         E-mail: support@juniper.net"
  DESCRIPTION
     "Implementation of enterprise specific MIB
      for license commands and configuration."
  REVISION    "201007090000Z"    -- Jul 09, 2010
  DESCRIPTION
         "Initial version."

   REVISION    "201612150000Z"    -- Dec 15, 2016
  DESCRIPTION
         "Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"


  REVISION    "201906170000Z"    -- Jun 17, 2019
  DESCRIPTION
         "Deprecated jnxLicenseKeys."

  ::=  {  jnxLicenseMibRoot  1  }

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

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

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

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

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

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

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

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

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

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

jnxLicenseKeys     OBJECT-TYPE
  SYNTAX         OCTET STRING
  MAX-ACCESS     read-only
  STATUS         deprecated
  DESCRIPTION    "******** THIS OBJECT IS DEPRECATED ********
                 This object is deprecated,
                 it displays all the license keys
                 in the system."
```

```
  ::= { jnxLicenseInstallEntry 5 }

jnxLicenseKeyType     OBJECT-TYPE
  SYNTAX        INTEGER {commercial(1),
 trial(2), demo(3), emergency(4), lab(5), education(6)}
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION    "License key type"
  ::= { jnxLicenseInstallEntry 6 }

-- Feature Listing Table

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

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

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

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

jnxLicenseFeatureName OBJECT-TYPE
  SYNTAX              DisplayString
  MAX-ACCESS          read-only
```

```
  STATUS              current
  DESCRIPTION         "Feature Name"
  ::= { jnxLicenseFeatureListEntry 2 }

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

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

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

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

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


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

jnxLicenseRenewBeforExpiration
 OBJECT-TYPE
  SYNTAX              INTEGER
```

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

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

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



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

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

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

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

```
  DESCRIPTION
      "The SNMP trap that is generated when the license period for
       feature identified by jnxLicenseFeatureName is about to expire"
  ::= { jnxLicenseNotifications 3 }

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

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

jnxLicenseKeyExpired NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName,  jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
  STATUS   current
  DESCRIPTION
      "The SNMP trap that is generated when the license for feature
       identified by jnxLicenseFeatureName is not valid i.e. either expired or
       not available."
  ::= { jnxLicenseNotifications 6 }

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

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

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

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

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

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

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

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

organization
 "Cisco Systems Inc.";

contact
 "Cisco Systems
  Customer Service

  Postal: 170 W Tasman Drive

  San Jose, CA  95134

  USA

  Tel: +1 800 553 -NETS

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

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

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

  The following text introduces different concepts and
  terms those are necessary to understand the MIB definition
```

and to perform license management.

UDI

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

NODE LOCKED LICENSE:

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

NON-NODE LOCKED LICENSE:

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

METERED LICENSE:

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

EULA:

End User License Agreement.

EVALUATION LICENSE:

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

RIGHT TO USE (RTU) LICENSE:

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

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

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

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

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

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

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

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

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

and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

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

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

LICENSE LINE:

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

LICENSE FILE:

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

DEVICE CREDENTIALS:

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

REHOST:

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

PERMISSION TICKET:

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

licenses.

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

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

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

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

STEPS TO CLEAR A LICENSE:
To clear a license, the management application
1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

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

device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

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

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

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

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

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

    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

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

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

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

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

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

typedef ClmgmtLicenseIndexOrZero {
  type uint32;
  description
```

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

typedef ClmgmtLicenseTransferProtocol {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "local" {
      value "2";
    }
    enum "tftp" {
      value "3";
    }
    enum "ftp" {
      value "4";
    }
    enum "rcp" {
      value "5";
    }
    enum "http" {
      value "6";
    }
    enum "scp" {
      value "7";
    }
    enum "sftp" {
      value "8";
    }
  }
  description
   "The transfer protocol that should be used for copying files
    when performing license management. When
the protocol is
    set to local(2), local file system (flash or disk) is used.
    Different agents may support different transfer protocols
    and the management application is expected to some how determine
    which protocol is supported and use.";
}
```

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

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

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

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

    successful(4)        - action has completed successfully.

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

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

```
typedef ClmgmtLicenseActionFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "generalFailure" {
      value "2";
    }
    enum "transferProtocolNotSupported" {
      value
"3";
    }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidLicenseFilePath" {
      value "6";
    }
    enum "invalidLicenseFile" {
      value "7";
    }
    enum "invalidLicenseLine" {
      value "8";
    }
    enum "licenseAlreadyExists" {
      value "9";
    }
    enum "licenseNotValidForDevice" {
      value "10";
    }
    enum "invalidLicenseCount" {
      value "11";
    }
    enum "invalidLicensePeriod" {
      value "12";
    }
    enum "licenseInUse" {
      value "13";
    }
    enum "invalidLicenseStore" {
      value "14";
    }
    enum "licenseStorageFull" {
      value "15";
```

```
    }
    enum "invalidPermissionTicketFile" {
      value "16";
    }
    enum "invalidPermissionTicket" {
      value "17";
    }
    enum "invalidRehostTicketFile" {
      value "18";
    }
    enum "invalidRehostTicket"
{
      value "19";
    }
    enum "invalidLicenseBackupFile" {
      value "20";
    }
    enum "licenseClearInProgress" {
      value "21";
    }
    enum "invalidLicenseEULAFile" {
      value "22";
    }
  }
  description
   "Reason for license action failure. Defines error codes for
    all the license actions.

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

Ex: Lack of memory.
    transferProtocolNotSupported(3) - protocol selected is not
                                supported.
    fileServerNotReachable(4) - file server is not reachable.
    unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
                                valid
    invalidLicenseFilePath(6)  - The license file path is not
                           accessible.
    invalidLicenseFile(7)      - Contents of license file are
```

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

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


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

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

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

  container clmgmtLicenseDeviceInformation {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

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

```
      repeated.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.1";
   }
  }

  container clmgmtLicenseNotifObjects {
   smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

   leaf clmgmtLicenseUsageNotifEnable {
    type boolean;
    description
     "This object indicates whether the device should generate
      the notifications related to usage of licenses. This object
      enables/disables sending following notifications:
          clmgmtLicenseExpired
          clmgmtLicenseExpiryWarning
          clmgmtLicenseUsageCountExceeded
          clmgmtLicenseUsageCountAboutToExceed
          clmgmtLicenseSubscriptionExpiryWarning
          clmgmtLicenseSubscriptionExtExpiryWarning
           clmgmtLicenseSubscriptionExpired
          clmgmtLicenseEvalRTUTransitionWarning
          clmgmtLicenseEvalRTUTransition";
    smiv2:defval "true";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
   }

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

   leaf clmgmtLicenseErrorNotifEnable {
    type boolean;
    description
     "This object indicates whether the device should generate
```

```
        notifications related to error conditions in enforcing
        licensing. This object enables/disables sending following
        notifications:
            clmgmtLicenseNotEnforced";
      smiv2:defval "true";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.3";
    }
  }

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

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

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

        1. CREATE-AND-GO method
           Management application sets clmgmtLicenseActionRowStatus to
           createAndGo(4) and all other required objects to valid
           values in a single SNMP SET request. If all the values
           are valid, the device creates the entry and executes the
```

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

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

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

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

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

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

b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicenseFile
g. clmgmtLicenseStore
h. clmgmtLicenseStopOnFailure

i. clmgmtLicenseAcceptEULA
j. clmgmtLicenseAction

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

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

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

3. Revoking a license
The following MIB objects need to be set for revoking a license
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicensePermissionTicketFile
g. clmgmtLicenseRehostTicketFile
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAction

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

i. clmgmtLicenseAction

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

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

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

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

leaf clmgmtLicenseActionIndex {
type uint32 {
range "1..4294967295";
}
description
"This object uniquely identifies a row in

```
        clmgmtLicenseActionTable. The management application should choose
        this value by reading clmgmtNextFreeLicenseActionIndex
        while creating an entry in this table. If an entry already
        exists with this index, the creation of the entry will not
        continue and error will be returned. The management application
        should read the value of clmgmtNextFreeLicenseActionIndex
        again and retry with the new value for this object.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
    }

    leaf clmgmtLicenseActionEntPhysicalIndex
{
      type entity-mib:PhysicalIndexOrZero;
      description
       "This object represents the entPhysicalIndex of the device
        where the action is being executed. This object is mainly
        used in devices where one device is acting as a master and
        rest of the devices as slaves. The master device is
        responsible for SNMP communication with the management
        application. Examples include stackable switches, devices
        with route processor and line card configuration. If this
        object is not set, the license action will be executed on
        the master device. Note: This object need not be set if
        there is a stand alone device";
      smiv2:defval "0";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
    }

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

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

    leaf clmgmtLicenseServerAddressType {
```

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

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

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

          The format of this address depends on the value of the
          clmgmtLicenseServerAddressType object";
        smiv2:defval "";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
       }

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

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

      leaf clmgmtLicenseFile {
        type snmp-framework:SnmpAdminString {
          length "0..255";
        }
        description
         "This object represents the location of the license file
          on the server identified by clmgmtLicenseServerAddress. This
          object MUST be set to a valid value before or concurrently
          with setting the value of the clmgmtLicenseAction object to
          install(2). For other operations, the value of this
          object is not considered, it is irrelevant.";
        smiv2:defval "";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
      }

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

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

      leaf clmgmtLicensePermissionTicketFile {
        type snmp-framework:SnmpAdminString {
          length "0..255";
        }
        description
         "This object indicates the file name of the permission
          ticket. This object need to be set only if
          clmgmtLicenseAction is set to processPermissionTicket(4)
          or regenerateLastRehostTicket(5) actions. The permission
          ticket is obtained from Cisco licensing portal to revoke
          a license. The management application must set this object
          to valid value before invoking the action.";
        smiv2:defval "";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
      }


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

```
        smiv2:defval "";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
       }

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

       leaf clmgmtLicenseStopOnFailure {
        type boolean;
        description
         "This object indicates whether the license action should
          stop if the action on a license fails. This object is
          applicable only if there are more than one licenses
          involved in an action.";
        smiv2:defval "false";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
       }

       leaf clmgmtLicenseAction {
        type enumeration {
         enum "noOp" {

   value "1";
         }
         enum "install" {
          value "2";
         }
         enum "clear" {
          value "3";
         }
         enum "processPermissionTicket" {
          value "4";
         }
```

```
    enum "regenerateLastRehostTicket" {
     value "5";
    }
    enum "backup" {
     value "6";
    }
    enum "generateEULA" {
     value "7";
    }
   }
   description
    "This object indicates the the command/action to be executed.

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

    install(2)                  Installs the license.

    clear(3)                    Clears the license.

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

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

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

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

  leaf clmgmtLicenseActionState {
   type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
   description
    "This object indicates the state of this license action.";
```

```
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
   }

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

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

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

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

   leaf clmgmtLicenseActionRowStatus {
    type snmpv2-tc:RowStatus;
    description
```

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

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

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

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

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

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

```
  }

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

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

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

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

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

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

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

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

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

       leaf clmgmtLicenseStoreIndex {
         type uint32 {
           range "1..4294967295";
         }
         description
          "This object uniquely identifies a license store within
```

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        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
```

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      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
```

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

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

  container object-3 {

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

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

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

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

```
  container object-4 {

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

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

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

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

  container object-5 {

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

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

```
mib:clmgmtFeatureIndex";
      }
    }

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

  container object-6 {

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

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

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

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

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

  container object-1 {

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

    }
    }

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

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

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

  container object-2 {

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

```
      }
    }

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

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

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

  container object-3 {

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

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

    leaf clmgmtLicenseIndex {
      type leafref {
```

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

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

  container
 object-4 {

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

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

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

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

```
  }
 }

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

  container object-1 {

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

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

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

    }

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

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
```

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

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

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

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

  container object-3 {

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

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

    leaf clmgmtLicenseIndex {
```

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

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

  container object-4 {

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

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

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

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

```
    }
  }
}

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

  container object-1 {

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

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

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

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

  container object-2 {

    leaf entPhysicalIndex {
      type leafref {
```

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

    leaf clmgmtLicenseStoreUsed {

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

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

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

  container object-3 {

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

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

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

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

  container object-4 {

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

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

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

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

```
    }
  }
}

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

  container object-1 {

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

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

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

  container object-2 {

    leaf entPhysicalIndex {

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

    leaf clmgmtFeatureIndex {
```

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

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

 notification clmgmtLicenseNotEnforced {
  description
   "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
 to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

  container object-1 {

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

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

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

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

  container object-2 {

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

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

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

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

  container object-1 {

    leaf entPhysicalIndex {
```

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

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

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

  container object-2 {

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

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

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

```
  }

  container object-3 {

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

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

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

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

  container object-1 {

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

    leaf clmgmtFeatureIndex {
```

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

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

  container object-2 {

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

    leaf clmgmtFeatureIndex {
      type leafref {

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

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

  container object-3 {

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

```
mib:entPhysicalIndex";
      }
    }

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

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

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

  container object-1 {

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

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

    leaf clmgmtFeatureName {
      type leafref {
```

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

  container object-2 {

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

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

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

  container object-3 {

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

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

```
    }

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

   }
    }
  }
 }

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

  container object-1 {

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

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

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

  container object-2 {
```

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

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

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

   container object-3 {

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

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

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

```
    }
  }
}

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

  container object-1 {

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

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

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

  container object-2 {

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

    leaf clmgmtFeatureIndex {
      type leafref {
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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


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

Customer Service

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

DESCRIPTION

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

The image level licensing mechanism works as follows -

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

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

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

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

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

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

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

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

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


ciscoImageLicenseMgmtMIBNotifs  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIB 2 }


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

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

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

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

cilmBootImageLevelTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF CilmBootImageLevelEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "A table that contains the configuration information of
     current and next boot image level. This table contains
     entries for each software module running in an image
     loaded in the device. The software module is identified by
     cilmModuleName and the device is identified by
     entPhysicalIndex."
  ::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry
 OBJECT-TYPE
  SYNTAX        CilmBootImageLevelEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "An entry in the table for each module containing the
     list of objects that define the configuration of next
     boot level. The following information is specified by
     the objects present in the table.

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

```
  INDEX          {
                   entPhysicalIndex,
                   cilmModuleName
                 }
  ::= { cilmBootImageLevelTable 1 }

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

cilmModuleName OBJECT-TYPE
  SYNTAX         SnmpAdminString
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "This object is used as one of the two indices in
     cilmBootImageLevelTable. This object indicates the module
     name of the software package. There can be multiple
     modules in an image performing specific functionality.
     For example, in a wireless image there can be two modules
     - a base image module and a wireless module."
  ::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE
  SYNTAX         BootImageLevel
  MAX-ACCESS     read-only
  STATUS
       current
  DESCRIPTION
     "This object indicates the current image level that
     the module is running."
  ::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE
  SYNTAX         BootImageLevel
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
     "This object indicates the configured image level
     of the module for the next boot.
```

```
      Note: The configured next boot image level may not
      be the actual next boot image level. The actual next
      boot image level is denoted by cilmNextBootImageLevel
      which is determined based on the license availability."
    ::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE
    SYNTAX        BootImageLevel
    MAX-ACCESS    read-only
    STATUS        current
    DESCRIPTION
      "This object indicates the next boot image level. The
      next boot image level can be different from configured
      level. The next boot
   image level is determined based
      on the availability of required license."
    ::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE
    SYNTAX        Unsigned32
    MAX-ACCESS    read-only
    STATUS        current
    DESCRIPTION
      "This object indicates the license store index where the
      currently used license is stored. This object has the same
      value as clmgmtLicenseStoreIndex object and uniquely
      identifies an entry in clmgmtLicenseStoreInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license store index can be '0' if no license is
      installed and device is running base image."
    ::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE
    SYNTAX        Unsigned32
    MAX-ACCESS    read-only
    STATUS        current
    DESCRIPTION
      "This object indicates the license index of the currently used
      license. This object has the same value as clmgmtLicenseIndex
   and
      uniquely identifies an entry in clmgmtLicenseInfoTable in
      CISCO-LICENSE-MGMT-MIB.

      Note: The license index can be '0' if no license is
      installed and device is running base image."
    ::= { cilmBootImageLevelEntry 6 }
```

```
cilmNextBootLicenseStoreIndex OBJECT-TYPE
  SYNTAX        Unsigned32
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the license store index where the
     next boot license is stored. This object has the same
     value as clmgmtLicenseStoreIndex object and uniquely
     identifies an entry in clmgmtLicenseStoreInfoTable in
     CISCO-LICENSE-MGMT-MIB.

     Note: The license store index can be '0' if no license is
     installed for the next boot."
  ::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE
  SYNTAX        Unsigned32
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates
 the license index of the next boot
     license. This object has the same value as clmgmtLicenseIndex
     and uniquely identifies an entry in clmgmtLicenseInfoTable in
     CISCO-LICENSE-MGMT-MIB.

     Note: The license index can be '0' if no license is
     installed for the next boot."
  ::= { cilmBootImageLevelEntry 8 }



cilmImageLevelToLicenseMapTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF CilmImageLevelToLicenseMapEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This table contains the mapping between different
     image levels of each modules in the image and the
     license required to run the modules at a particular
     image level. This table can be used to identify the
     different image levels and the appropriate licenses
     required for each."
  ::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE
  SYNTAX        CilmImageLevelToLicenseMapEntry
```

```
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "An entry in the table containing the following
        information.
        - The image levels at the which the modules can be run.
        - The license required to the run a module at a
        particular image level.
        - The priority of the license."
    INDEX           {
                        entPhysicalIndex,
                        cilmModuleName,
                        cilmImageLicenseMapIndex
                    }
    ::= { cilmImageLevelToLicenseMapTable 1 }

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

cilmImageLicenseMapIndex OBJECT-TYPE
    SYNTAX          Unsigned32
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "This is a running
 index used to identify an entry
        of this table."
    ::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE
    SYNTAX          BootImageLevel
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This object indicates the image level at which
        a module can be run. A module can be run at
        different image levels. An entry will be created
        in this table for every module and image level
        combination."
    ::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE
    SYNTAX          LicenseNameList
    MAX-ACCESS      read-only
```

```
  STATUS        current
  DESCRIPTION
     "This object indicates the list of licenses needed to
     be installed for the module to run at the image level
     mentioned by cilmImageLicenseImageLevel object of this
     entry."
  ::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE
  SYNTAX        Unsigned32
 (1..255)
  MAX-ACCESS     read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the priority of the image level
     mentioned by cilmImageLicenseImageLevel object of this
     entry. The image level with the highest priority license
     will be considered as the default level in the absense of
     next boot image level configuration. For example if there
     are three licenses l1, l2 and l3 in the ascending order of
     priority, then by default l1 will be the level at which the
     module will be running. If the next boot level is configured
     then the configuration will override the priority. The highest
     priority license supports a feature set which is a super set of
     all other licenses."
  ::= { cilmImageLevelToLicenseMapEntry 4 }



-- Global Objects

cilmEULAAccepted OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS     read-write
  STATUS        current
  DESCRIPTION

 "This object when set to TRUE means that the user has
     accepted the END USER LICENSE AGREEMENT. This object
     has to be set to TRUE by the user before using the
     objects in the cilmBootImageLevelTable to configure
     the license."
  DEFVAL        { false }
  ::= { ciscoImageLicenseMgmtMIBObjects 3 }
-- Notification control

cilmNotifCntl  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBObjects 4 }
```

```
cilmImageLevelChangedNotif OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
     "Specify whether or not a notification should be
     generated on the detection of change in next boot
     image level.

     If set to TRUE, cilmBootImageLevelChanged notification
     will be generated. It is the responsibility of the
     management entity to ensure that the SNMP administrative
     model is configured in such a way as to allow the
     notification to be delivered."
   REFERENCE
     "See also RFC3413 for explanation that notifications
     are under the ultimate control of the MIB module in
     this document."
  DEFVAL         { false }
  ::= { cilmNotifCntl 1 }

-- Notifications

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

cilmModuleCompliances  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups  OBJECT IDENTIFIER
  ::= { ciscoImageLicenseMgmtMIBConform 2 }


cilmModuleCompliance MODULE-COMPLIANCE
```

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

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

-- Units of Conformance

cilmAdminGroup OBJECT-GROUP
    OBJECTS         {
                    cilmCurrentImageLevel,
                    cilmConfiguredBootImageLevel,
                    cilmNextBootImageLevel,
                    cilmCurrentLicenseStoreIndex,
                    cilmCurrentLicenseIndex,
                    cilmNextBootLicenseStoreIndex,
                    cilmNextBootLicenseIndex,
                    cilmEULAAccepted,
                    cilmImageLevelChangedNotif

            }
    STATUS          current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

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

cilmNotifGroup NOTIFICATION-GROUP
```

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

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

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

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

```
ciscoLicenseMgmtMIB MODULE-IDENTITY
  LAST-UPDATED    "201204190000Z"
   ORGANIZATION    "Cisco Systems Inc."
  CONTACT-INFO
        "Cisco Systems
        Customer Service

        Postal: 170 W Tasman Drive

        San Jose, CA  95134

        USA

        Tel: +1 800 553 -NETS

        E-mail: cs-snmp@cisco.com"
  DESCRIPTION
    "The MIB module for managing licenses on the system.
    The licensing mechanism provides flexibility to
    enforce licensing for various features in the system.

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

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

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

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

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

EULA:
End User License Agreement.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

part and it contains one or more license lines.

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

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

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

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

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

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

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

STEPS TO CLEAR A LICENSE:
To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

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

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

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

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

1. Specifies the license file path that has licenses to be

installed
2. Specifies the EULA file path where EULA need to be
exported to
3. Executes the generate EULA action.

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

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

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

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

entPhysicalIndex imported from ENTITY-MIB is used to
identify the device uniquely. It is specified
as the index
or one of the index for tables in this MIB as needed."
REVISION "201204190000Z"
DESCRIPTION
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"
DESCRIPTION

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

The new module compliance is ciscoLicenseMgmtComplianceRev1."
REVISION "200811210000Z"
DESCRIPTION
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
paidSubscription
evaluationSubscription
extensionSubscription
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicenseStartDate
clmgmtLicenseEndDate
o Added following
objects to clmgmtLicensableFeatureTable
clmgmtFeatureStartDate
clmgmtFeatureEndDate
o Added the following notifications
clmgmtLicenseSubscriptionExpiryWarning
clmgmtLicenseSubscriptionExtExpiryWarning
clmgmtLicenseSubscriptionExpired
o Added the following conformance groups
clmgmtLicenseSubscriptionGroup
clmgmtLicenseSubscriptionUsageNotifGroup
The new module compliance is ciscoLicenseMgmtComplianceRev1."
REVISION "200610030000Z"
DESCRIPTION
"Initial version of this MIB module."

```
  ::= { ciscoMgmt 543 }


ciscoLicenseMgmtMIBNotifs  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation
 OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBObjects 4 }


ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION
  STATUS        current
  DESCRIPTION
     "A unique value, for each license in the managed system.
     It is not necessary to have values assigned contiguously.
     The value for each license must remain constant
     at least from one re-initialization of the entity's
     network management system to the next re-initialization"
  SYNTAX        Unsigned32 (1..4294967295)

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

```
  SYNTAX        Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION
  STATUS        current
  DESCRIPTION
    "The transfer protocol that should be used for copying files
    when performing license management. When the protocol is
    set to local(2), local file system (flash or disk) is used.
    Different agents may support different transfer protocols
    and the management application is expected to some how determine
    which protocol is supported and use."
  SYNTAX        INTEGER  {
                  none(1),
                  local(2),
                  tftp(3),
                  ftp(4),
                   rcp(5),
                  http(6),
                  scp(7),
                  sftp(8)
                }

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION
  STATUS        current
  DESCRIPTION
    "The state of license action execution.

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

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

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

    successful(4)        - action has completed successfully.

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

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

```
    failed(6)           - action has failed."
  SYNTAX        INTEGER  {
                  none(1),
                  pending(2),
                  inProgress(3),
                  successful(4),
                  partiallySuccessful(5),
                  failed(6)
                }

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION
  STATUS        current
  DESCRIPTION
    "Reason for license action failure. Defines error codes for
    all the license actions.

    none(1)                 - action execution has not
                              started yet. If the action
                              is
completed and the action
                              is successful, then also
                              none(1) is returned to
                              indicate that there are no
                              errors.
    generalFailure(2)       - General licensing failure.
                              This will be used for resource
                              unavailability failures.
                              Ex: Lack of memory.
    transferProtocolNotSupported(3) - protocol selected is not
                                supported.
    fileServerNotReachable(4) - file server is not reachable.
    unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
                                valid
    invalidLicenseFilePath(6)  - The license file path is not
                              accessible.
    invalidLicenseFile(7)     - Contents of license file are

                          not valid.
    invalidLicenseLine(8)     - License string in the license
                              file is not valid.
    licenseAlreadyExists(9)   - Management application is trying
                              to install a license that already
                              exists.
    licenseNotValidForDevice(10) - This license is not valid for
                               the device/entPhysicalIndex
                               specified.
    invalidLicenseCount(11)   - Invalid count for this counted
```

```
                    license.
    invalidLicensePeriod(12)   - Validity period is invalid for
                    this expiring license.
    licenseInUse(13)           - License file is in use by a
                    feature/image.
    invalidLicenseStore(14)    - License store is not valid.
    licenseStorageFull(15)     - There is
no more space in the
                    license storage.
    invalidPermissionTicketFile(16) - The permission ticket file
                       path is not accecssible.
    invalidPermissionTicket(17) - The permission ticket file
                    contents are not valid.
    invalidRehostTicketFile(18) - The rehost ticket file path is
                    not accessible.
    invalidRehostTicket(19)     - The rehost ticket file contents
                    are not valid.
    invalidLicenseBackupFile(20) - License backup store path
                     is not accessible.
    licenseClearInProgress(21)  - When license clear action is
                    in progress, license backup
                    action is not permitted to
                    avoid race conditions. This

      error code is sent back in
                    response to a license backup
                    action when a license clear
                    action is in progress or in
                    pending state. Try again in few
                    seconds.
    invalidLicenseEULAFile(22) -  EULA file path is not accessible."
  SYNTAX        INTEGER  {
                none(1),
                generalFailure(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidLicenseFilePath(6),
                invalidLicenseFile(7),
                invalidLicenseLine(8),
                licenseAlreadyExists(9),
                licenseNotValidForDevice(10),
                invalidLicenseCount(11),

              invalidLicensePeriod(12),
                licenseInUse(13),
                invalidLicenseStore(14),
                licenseStorageFull(15),
```

```
                invalidPermissionTicketFile(16),
                invalidPermissionTicket(17),
                invalidRehostTicketFile(18),
                invalidRehostTicket(19),
                invalidLicenseBackupFile(20),
                licenseClearInProgress(21),
                invalidLicenseEULAFile(22)
            }

clmgmtNextFreeLicenseActionIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object contains appropriate value for
     clmgmtLicenseActionIndex that can be used to create
     an entry in clmgmtLicenseActionTable. The management application
     should read this object first and then use this as the
     value
 for clmgmtLicenseActionIndex to avoid collisions
     when creating entries in clmgmtLicenseActionTable.
     Following this approach does not guarantee collision free
     row creation, but will reduce the probability. The
     collision will happen if two management applications read this
     object at the same time and attempt to create an entry
     with this value at the same time. In this case, the
     management application whose request is processed after the first
     request will get an error and the process of reading this object
     and entry creation needs to be repeated."
  ::= { clmgmtLicenseConfiguration 1 }
-- Table for executing license management actions.

clmgmtLicenseActionTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicenseActionEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "A table for invoking license management actions. Management
     application must create a row
 in this table to trigger any of
     the license management actions. The following are different
     actions that can be executed using this table.
        1. install
        2. clear
        3. processPermissionTicket
        4. regenerateLastRehostTicket
        5. backup
        6. generateEULA
```

Refer to the description of clmgmtLicenseAction for more
information on what these actions do on the device.
Once the request completes, the management application should
retrieve the values of the objects of interest, and then
delete the entry. In order to prevent old entries from
clogging the table, entries will be aged out, but an entry
will never be deleted within 5 minutes of completion."
::= { clmgmtLicenseConfiguration 2 }

clmgmtLicenseActionEntry OBJECT-TYPE
SYNTAX ClmgmtLicenseActionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An
entry for each action that is being executed or was
executed recently. The management application executes an
action
by creating this entry. This can be done in the following
2 methods

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

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

The status of action execution can be known by querying

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

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

1. Installing a license
The following MIB objects need to be set for installing a
license
a. clmgmtLicenseActionTransferProtocol
b. clmgmtLicenseServerAddressType
c. clmgmtLicenseServerAddress
d. clmgmtLicenseServerUsername
e. clmgmtLicenseServerPassword
f. clmgmtLicenseFile
g. clmgmtLicenseStore
h. clmgmtLicenseStopOnFailure
i. clmgmtLicenseAcceptEULA
j. clmgmtLicenseAction

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

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

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

3. Revoking a license

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

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

4. Regenerate last rehost ticket

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

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

5. Save all licenses to a backup storage

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

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

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

The following MIB objects need to be set exporting required EULAs

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

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

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

            b. clmgmtLicenseServerAddress
            c. clmgmtLicenseServerUsername
            d. clmgmtLicenseServerPassword

        Entry can be deleted except when clmgmtLicenseAction is set
        to pending(2). All entries are volatile and are cleared
        on agent reset."
    INDEX           { clmgmtLicenseActionIndex }
    ::= { clmgmtLicenseActionTable 1 }

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

clmgmtLicenseActionIndex OBJECT-TYPE
    SYNTAX          Unsigned32 (1..4294967295)
    MAX-ACCESS      not-accessible
```

```
  STATUS        current
  DESCRIPTION
     "This object uniquely identifies a row in
     clmgmtLicenseActionTable.
 The management application should choose
     this value by reading clmgmtNextFreeLicenseActionIndex
     while creating an entry in this table. If an entry already
     exists with this index, the creation of the entry will not
     continue and error will be returned. The management application
     should read the value of clmgmtNextFreeLicenseActionIndex
     again and retry with the new value for this object."
  ::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE
  SYNTAX        PhysicalIndexOrZero
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object represents the entPhysicalIndex of the device
     where the action is being executed. This object is mainly
     used in devices where one device is acting as a master and
     rest of the devices as slaves. The master device is
     responsible for SNMP communication with the management
     application. Examples
 include stackable switches, devices
     with route processor and line card configuration. If this
     object is not set, the license action will be executed on
     the master device. Note: This object need not be set if
     there is a stand alone device"
  DEFVAL        { 0 }
  ::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE
  SYNTAX        ClmgmtLicenseTransferProtocol
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object represents the transfer protocol to be used
     when copying files as specified in the following objects.
     1. clmgmtLicenseFile
     2. clmgmtLicensePermissionTicketFile
     3. clmgmtLicenseRehostTicketFile
     4. clmgmtLicenseBackupFile

     Note: This object need not be set if the all the files
     required for the action are in device's local file system."
  DEFVAL        { none }
  ::= { clmgmtLicenseActionEntry 3 }
```

```
clmgmtLicenseServerAddressType
 OBJECT-TYPE
  SYNTAX         InetAddressType
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the transport type of the
     address contained in clmgmtLicenseServerAddress object.
     This must be set when clmgmtLicenseActionTransferProtocol
     is not none(1) or local(2)."
  DEFVAL         { unknown }
  ::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE
  SYNTAX         InetAddress
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the ip address of the server from
     which the files must be read or written to if
     clmgmtLicenseActionTransferProtocol is not none(1) or
     local(2).

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

     The format of this address depends on the value of the
     clmgmtLicenseServerAddressType object"
  DEFVAL
        { "" }
  ::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the remote user name for accessing
     files via ftp, rcp, sftp or scp protocols. This object must
     be set when the clmgmtLicenseActionTransferProtocol is
     ftp(4), rcp(5), scp(7) or sftp(8). If
     clmgmtLicenseActionTransferProtocol is rcp(5), the remote
     username is sent as the server username in an rcp command
     request sent by the system to a remote rcp server."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 6 }
```

```
clmgmtLicenseServerPassword OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..96))
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the password used by ftp, sftp or
     scp for copying a file to/from
 an ftp/sftp/scp server.
     This object must be set when the
     clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
     or sftp(8). Reading it returns a zero-length string for
     security reasons."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 7 }

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

clmgmtLicenseStore OBJECT-TYPE
  SYNTAX        Unsigned32
  MAX-ACCESS    read-create

 STATUS        current
  DESCRIPTION
     "This object represents the clmgmtLicenseStoreIndex of the
     license store to use within the device. The license store
     can be a local disk or flash. A device can have more than
     one license stores. If this object is not set, the license
     will be stored in the default license store as exposed by
     clmgmtDefaultLicenseStore object."
  DEFVAL        { 0 }
  ::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE
  SYNTAX        ClmgmtLicenseIndexOrZero
  MAX-ACCESS    read-create
  STATUS        current
```

```
  DESCRIPTION
     "This object indicates the the license index of the license
     that is the subject of this action. This is used for
     identifying a license for performing actions specific to
     that license. This object need to be set only if
     clmgmtLicenseAction is set to clear(4). The value of this
     object is same as the clmgmtLicenseIndex
 object in
     clmgmtLicenseInfoEntry for license that is subject of this
     action."
  DEFVAL         { 0 }
  ::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the file name of the permission
     ticket. This object need to be set only if
     clmgmtLicenseAction is set to processPermissionTicket(4)
     or regenerateLastRehostTicket(5) actions. The permission
     ticket is obtained from Cisco licensing portal to revoke
     a license. The management application must set this object
     to valid value before invoking the action."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS         current
   DESCRIPTION
     "This object indicates the file where the rehost ticket
     generated by the device need to be exported to. The rehost
     ticket is generated as a result of processPermissionTicket
     and regenerateLastRehostTicket actions. After generating
     the rehost ticket, the device exports the rehost ticket
     contents to this file. This object need to be set only
     if clmgmtLicenseAction is set to processPermissionTicket(4)
     or regenerateLastRehostTicket(5) actions."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE
  SYNTAX         SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS     read-create
  STATUS         current
```

```
  DESCRIPTION
     "This object indicates the file where all the licenses in
     the device need to be backed up. This object need to be set
     only if clmgmtLicenseAction is set to backup(6) and the
     management application must set the
 value of this  object
     to valid value before invoking action."
  DEFVAL         { "" }
  ::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates whether the license action should
     stop if the action on a license fails. This object is
     applicable only if there are more than one licenses
     involved in an action."
  DEFVAL         { false }
  ::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE
  SYNTAX         INTEGER  {
                    noOp(1),
                    install(2),
                    clear(3),
                    processPermissionTicket(4),
                    regenerateLastRehostTicket(5),
                    backup(6),
                    generateEULA(7)
                 }
  MAX-ACCESS     read-create
  STATUS
 current
  DESCRIPTION
     "This object indicates the the command/action to be executed.

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

     install(2)                Installs the license.

     clear(3)                  Clears the license.

     processPermissionTicket(4)    Processes thee permission
```

ticket and generates and
exports rehost ticket.

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

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

generateEULA(7)
Checks whether the licenses
in the license file need EULA
acceptance and uploads the
needed EULA contents to a file."
DEFVAL { noOp }
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE
SYNTAX ClmgmtLicenseActionState
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the state of this license action."
::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object represents the position of the action
in the license action job queue that is maintained
internally. Only actions in pending(2) state will
be put in the queue until they are executed. By
reading this object, the management
application can make
intelligent decision on whether to execute another
action that it is planning on. For example, if there
is already a license clear action in the queue in
pending(2) state, management application can choose to
defer its license back up action to a later time. This
object will return a value of 0 if the action is not in
pending(2) state."
::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

```
  SYNTAX        ClmgmtLicenseActionFailCause
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the reason for this license action
     failure. The value of this object is valid only when
     clmgmtLicenseActionState is failed(6)."
  ::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE
  SYNTAX        StorageType
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION

 "This object indicates the storage type for this conceptual
     row. Conceptual rows having the value 'permanent' need not
     allow write-access to any columnar objects in the row."
  DEFVAL        { volatile }
  ::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE
  SYNTAX        RowStatus
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates the the status of this table entry.
     Once the entry status is set to active(1), the associated
     entry cannot be modified until the action completes
     (clmgmtLicenseConfigCommandStatus is set to a value
     other than inProgress(3)). Once the action completes
     the only operation possible after this is to delete
     the row. It is recommended that the management application
     should delete entries in this table after reading
     the result. In order to prevent old entries from
     clogging the table, entries
 will be aged out, but an
     entry will never be deleted within 5 minutes of
     completion"
  ::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
     "This object indicates whether the End User License Agreement
     needed for installing the licenses is accepted.
```

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

      Management application should set this object to true(1) when
      installing licenses that need EULA acceptance."
  DEFVAL        { false }
  ::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
      "This object indicates the file where all the End User License
      Agreements (EULAs) need to be exported to. This object need
 to
      be set only if clmgmtLicenseAction is set to generateEULA(7) and
      the management application must set the value of this object to
      valid value before invoking action."
  DEFVAL        { "" }
  ::= { clmgmtLicenseActionEntry 22 }


-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicenseActionResultEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
      "This table contains results of license action if the
      license action involves multiple licenses. Entries in this
      table are not created for actions where there is
      only license that is subject of the action. For
      example, if there are 3 licenses in a license file
      when executing license install action, 3 entries will
      be created in this table, one for each license."
  ::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE
  SYNTAX
        ClmgmtLicenseActionResultEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
      "An entry in clmgmtLicenseActionResultTable. Each entry
      contains result of the action for a single license.
```

```
      These entries are created immediately after action
      execution when the action involves multiple licenses.
      These entries get automatically deleted when the
      corresponding entry in clmgmtLicenseActionTable
      is deleted."
    INDEX          {
                     clmgmtLicenseActionIndex,
                     clmgmtLicenseNumber
                   }
    ::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
      clmgmtLicenseNumber              Unsigned32,
      clmgmtLicenseIndivActionState    ClmgmtLicenseActionState,
      clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}

clmgmtLicenseNumber OBJECT-TYPE
    SYNTAX         Unsigned32 (1..4294967295)
     MAX-ACCESS     not-accessible
    STATUS         current
    DESCRIPTION
      "This object indicates the sequence number of this license
      in the list of licenses on which the action is executed.
      For example, if there are 3 licenses in a license file
      when executing license install action, this object will
      have values 1, 2 and 3 respectively as ordered in the
      license file."
    ::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE
    SYNTAX         ClmgmtLicenseActionState
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION
      "This object indicates the state of action on this
      individual license."
    ::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
    SYNTAX         ClmgmtLicenseActionFailCause
    MAX-ACCESS     read-only
    STATUS         current
    DESCRIPTION
      "This object indicates the reason for action failure
   on this
      individual license"
    ::= { clmgmtLicenseActionResultEntry 3 }
```

```
-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicenseStoreInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This table contains information about all the license
     stores allocated on the device."
  ::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicenseStoreInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "An entry in clmgmtLicenseStoreInfoTable. Each entry
     contains information about a license store allocated
     on the device"
  INDEX         {
                  entPhysicalIndex,
                  clmgmtLicenseStoreIndex
                }
  ::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
     clmgmtLicenseStoreIndex
       Unsigned32,
     clmgmtLicenseStoreName         SnmpAdminString,
     clmgmtLicenseStoreTotalSize    Unsigned32,
     clmgmtLicenseStoreSizeRemaining Unsigned32
}

clmgmtLicenseStoreIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This object uniquely identifies a license store within
     the device."
  ::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..255))
  MAX-ACCESS    read-only
  STATUS        current
```

```
    DESCRIPTION
        "This object indicates the name of the license store
        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt"
    ::= { clmgmtLicenseStoreInfoEntry
 2 }

clmgmtLicenseStoreTotalSize OBJECT-TYPE
    SYNTAX          Unsigned32
    UNITS           "bytes"
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This object indicates the total number of bytes that are
        allocated to the license store."
    ::= { clmgmtLicenseStoreInfoEntry 3 }

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE
    SYNTAX          Unsigned32
    UNITS           "bytes"
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This object indicates the number of bytes still remaining
        to be used for new license installations in the license
        store."
    ::= { clmgmtLicenseStoreInfoEntry 4 }


-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF ClmgmtLicenseDeviceInfoEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "This table contains objects that provide licensing related
        information
 at the device level. Entries will exist
        only for entities that support licensing. For example,
        if it is a stand alone device and supports licensing,
        then there will be only one entry in this table. If
        it is stackable switch then there will be multiple
        entries with one entry for each device in the stack."
    ::= { clmgmtLicenseInformation 2 }
```

```
clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicenseDeviceInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "An entry in clmgmtLicenseDeviceInfoTable. Each entry
     contains device level licensing information for a device."
  INDEX         { entPhysicalIndex }
  ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
     clmgmtDefaultLicenseStore Unsigned32
}

clmgmtDefaultLicenseStore OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    read-only
  STATUS
   current
  DESCRIPTION
     "This object indicates the clmgmtLicenseStoreIndex of
     default store in the device. There will be only one
     default license store per device. If no license store
     is specified during license install, this default license
     store will be used."
  ::= { clmgmtLicenseDeviceInfoEntry 1 }


-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF ClmgmtLicenseInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "This table contains information about all the licenses
     installed on the device."
  ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
  SYNTAX        ClmgmtLicenseInfoEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "An entry in clmgmtLicenseInfoTable. Each entry contains
     information about a license installed on the device. This
     entry gets created when
```

```
 a license is installed successfully.
      Management application can not create these entries directly, but
      will do so indirectly by executing license install action.
      Some of these entries may already exist that correspond to
      demo licenses even before management application installs any
      licenses."
   INDEX          {
                    entPhysicalIndex,
                    clmgmtLicenseStoreUsed,
                    clmgmtLicenseIndex
                  }
   ::= { clmgmtLicenseInfoTable 1 }

ClmgmtLicenseInfoEntry ::= SEQUENCE {
      clmgmtLicenseStoreUsed              Unsigned32,
      clmgmtLicenseIndex                  ClmgmtLicenseIndex,
      clmgmtLicenseFeatureName            SnmpAdminString,
      clmgmtLicenseFeatureVersion         SnmpAdminString,
      clmgmtLicenseType                   INTEGER,
      clmgmtLicenseCounted                TruthValue,
      clmgmtLicenseValidityPeriod         Unsigned32,
       clmgmtLicenseValidityPeriodRemaining Unsigned32,
      clmgmtLicenseExpiredPeriod          Unsigned32,
      clmgmtLicenseMaxUsageCount          Unsigned32,
      clmgmtLicenseUsageCountRemaining    Unsigned32,
      clmgmtLicenseEULAStatus             TruthValue,
      clmgmtLicenseComments               SnmpAdminString,
      clmgmtLicenseStatus                 INTEGER,
      clmgmtLicenseStartDate              DateAndTime,
      clmgmtLicenseEndDate                DateAndTime,
      clmgmtLicensePeriodUsed             Unsigned32
}

clmgmtLicenseStoreUsed OBJECT-TYPE
   SYNTAX         Unsigned32 (1..4294967295)
   MAX-ACCESS     not-accessible
   STATUS         current
   DESCRIPTION
      "This object represents the license store that is used for
      storing this license. This object will have the same value
      as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry
      of the license store used."
   ::= { clmgmtLicenseInfoEntry
  1 }

clmgmtLicenseIndex OBJECT-TYPE
   SYNTAX         ClmgmtLicenseIndex
   MAX-ACCESS     not-accessible
```

```
  STATUS        current
  DESCRIPTION
     "This object uniquely identifies a license within
     the device."
  ::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the name of the feature that is
     using or can use this license. A license can be used by
     only one feature. Examples of feature name are: 'IPBASE',
     'ADVIPSERVICE'."
  ::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object indicates the version of the feature that is
     using or can use this license. Examples of feature version
      are: '1.0', '2.0'"
  ::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE
  SYNTAX        INTEGER  {
                  demo(1),
                  extension(2),
                  gracePeriod(3),
                  permanent(4),
                  paidSubscription(5),
                  evaluationSubscription(6),
                  extensionSubscription(7),
                  evalRightToUse(8),
                  rightToUse(9),
                  permanentRightToUse(10)
                }
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     "This object identifies type of license. Licenses may have
     validity period defined in terms of time duration that the
     license is valid for or it may be defined in terms of actual
     calendar dates. Subscription licenses are licenses that have
     validity period defined in terms of calendar dates.
```

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

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

::=
{ clmgmtLicenseInfoEntry 5 }

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

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

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS
   current
  DESCRIPTION
     "This object indicates the time period remaining before the
     license expires or transitions to rightToUse(9) license. This
     object is applicable only if clmgmtLicenseType is demo(1), or
     extension(2) or gracePeriod(3) or evalRightToUse(8). The object
     will contain 0 for other license types."
  ::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the elapsed time period since the license
     expired. This object is applicable only if clmgmtLicenseType
     is demo(1), or extension(2) or gracePeriod(3). Also, this
     value of this object will be valid only after the license
     expires. The object will return 0 for other license types
     or before the license expiry."
  ::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount
 OBJECT-TYPE
  SYNTAX         Unsigned32
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the maximum number of entities that
```

```
      can use this license. This object is applicable only if
      clmgmtLicenseCounted is true(1). The entity that is being
      counted can be anything and it depends on the licensable
      feature."
   ::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE
   SYNTAX         Unsigned32
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the number of entities that can
      still use this license. This object is applicable only
      if clmgmtLicenseCounted is true(1)."
   ::= { clmgmtLicenseInfoEntry 11 }

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

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

clmgmtLicenseComments OBJECT-TYPE
   SYNTAX         SnmpAdminString (SIZE  (0..255))
   MAX-ACCESS     read-write
   STATUS         current
   DESCRIPTION
      "This object represents the user modifiable comments
      about the license. This object is initially populated
      with comments from the license file."
   ::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE
   SYNTAX         INTEGER  {
                     inactive(1),
                     notInUse(2),
                     inUse(3),
                     expiredInUse(4),
                     expiredNotInUse(5),
                     usageCountConsumed(6)
                  }
```

```
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object represents status of the license.

      inactive(1)          - license is installed, but
                           not active.
     notInUse(2)           - license is installed and
                           available for use.
     inUse(3)              - the license is being used (by
                           a feature).
     expiredInUse(4)       - license is expired but still
                           being held by the feature.
     expiredNotInUse(5)    - license is expired and not being
                           held by any feature.
     usageCountConsumed(6) - number of entities using this
                           licenses has reached the allowed
                           limit, no new entities are allowed
                           to use this license."
  ::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE
  SYNTAX          DateAndTime
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object
 indicates the start date for a subscription
     license. It is optional for subscription linceses to have a
     start date associated with them, they may only have an end
     date associated with them. This object may be applicable only
     when clmgmtLicenseType is paidSubscription(5),
     evaluationSubscription(6) or extensionSubscription (7).
     The object will contain an octet string of length 0 when it is
     not applicable."
  ::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE
  SYNTAX          DateAndTime
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
     "This object indicates the end date for a subscription license.
     This object is applicable only when clmgmtLicenseType is
     paidSubscription(5), evaluationSubscription(6) or
     extensionSubscription (7). The object will contain an octet
     string of length 0 when it is not applicable."
  ::= { clmgmtLicenseInfoEntry
```

```
 16 }

clmgmtLicensePeriodUsed OBJECT-TYPE
  SYNTAX         Unsigned32
  UNITS          "seconds"
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the time period used for the
     Right to use (RTU) licenses. This object is applicable for all
     RTU licenses."
  ::= { clmgmtLicenseInfoEntry 17 }


-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE
  SYNTAX         SEQUENCE OF ClmgmtLicensableFeatureEntry
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "This table contains list of licensable features in the
     image. All the licensable features will have an entry each
     in this table irrespective of whether they are using any
     licenses currently. Entries in this table are created by
     the agent one for each licensable feature in the image.
     These entries remain in the table permanently and can not

  be deleted. Management application can not create or delete
     entries from this table."
  ::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE
  SYNTAX         ClmgmtLicensableFeatureEntry
  MAX-ACCESS     not-accessible
  STATUS         current
  DESCRIPTION
     "An entry in clmgmtLicensableFeatureTable. Each entry represents
     a licensable feature."
  INDEX          {
                    entPhysicalIndex,
                    clmgmtFeatureIndex
                 }
  ::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {
     clmgmtFeatureIndex              Unsigned32,
     clmgmtFeatureName               SnmpAdminString,
```

```
    clmgmtFeatureVersion              SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted        SnmpAdminString,
    clmgmtFeatureStartDate            DateAndTime,
    clmgmtFeatureEndDate
          DateAndTime,
    clmgmtFeaturePeriodUsed           Unsigned32
}

clmgmtFeatureIndex OBJECT-TYPE
  SYNTAX        Unsigned32 (1..4294967295)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "This object uniquely identifies a licensable feature in
    the device."
  ::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..128))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'"
  ::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE
  SYNTAX        SnmpAdminString (SIZE  (0..32))
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
    "This object indicates the version of the licensable
    feature in the device. Examples
 of feature versions
    are: '1.0' or '2.0'"
  ::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE
  SYNTAX        Unsigned32
  UNITS         "seconds"
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
    "This object indicates the time period remaining before
    the feature's license expires or transitions. This object is
    applicable only if clmgmtLicenseType of the license used by
```

this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."
::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE
SYNTAX SnmpAdminString (SIZE (0..128))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."
::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."
::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this

```
      feature have a valid end date then this object will contain an
      octet string of length 0."
   ::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE
   SYNTAX         Unsigned32
   UNITS          "seconds"
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object indicates the license period used for the feature."
   ::= { clmgmtLicensableFeatureEntry 8 }



--
 MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE
   SYNTAX         Unsigned32
   MAX-ACCESS     read-only
   STATUS         current
   DESCRIPTION
      "This object contains appropriate value for
      clmgmtDevCredExportActionIndex that can be used to create
      an entry in clmgmtDevCredExportActionTable. The management
      application should read this object first and then use this
      as the value for clmgmtDevCredExportActionIndex to avoid
      collisions when creating entries in
      clmgmtDevCredExportActionTable. Following this approach does
      not guarantee collision free row creation, but will reduce
      the probability. The collision will happen if two
      management applications read this object at the same time and
      attempt to create an entry with this value at the same time.
      In this case, the management application whose request is
      processed after the first request
 will get an error and the
      process of reading this object and entry creation needs to be
      repeated."
   ::= { clmgmtLicenseDeviceInformation 1 }
-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE
   SYNTAX         SEQUENCE OF ClmgmtDevCredExportActionEntry
   MAX-ACCESS     not-accessible
   STATUS         current
   DESCRIPTION
      "A table for triggering device credentials export action.
```

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

Once the request completes, the management application should
retrieve the values of the objects of interest, and then
delete the entry. In order to prevent old entries from
clogging the table, entries will be aged out, but an entry
will never be deleted within 5 minutes of completion."
::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry
OBJECT-TYPE
SYNTAX ClmgmtDevCredExportActionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry for each device credential export action that
is being executed or was executed recently. The management
application triggers the export by creating an entry in this
table. This can be done in the following 2 methods

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

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

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

```
      failure can
 be retrieved from clmgmtDevCredCommandFailCause.

      Entry can be deleted except when clmgmtLicenseAction is set
      to inProgress(3). All entries in this table are volatile
      and are cleared on agent reset."
   INDEX          { clmgmtDevCredExportActionIndex }
   ::= { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry ::= SEQUENCE {
      clmgmtDevCredExportActionIndex Unsigned32,
      clmgmtDevCredEntPhysicalIndex  PhysicalIndexOrZero,
      clmgmtDevCredTransferProtocol  ClmgmtLicenseTransferProtocol,
      clmgmtDevCredServerAddressType InetAddressType,
      clmgmtDevCredServerAddress     InetAddress,
      clmgmtDevCredServerUsername    SnmpAdminString,
      clmgmtDevCredServerPassword    SnmpAdminString,
      clmgmtDevCredExportFile        SnmpAdminString,
      clmgmtDevCredCommand           INTEGER,
      clmgmtDevCredCommandState      ClmgmtLicenseActionState,
      clmgmtDevCredCommandFailCause  INTEGER,
      clmgmtDevCredStorageType
      StorageType,
      clmgmtDevCredRowStatus         RowStatus
}

clmgmtDevCredExportActionIndex OBJECT-TYPE
   SYNTAX         Unsigned32 (1..4294967295)
   MAX-ACCESS     not-accessible
   STATUS         current
   DESCRIPTION
      "This object uniquely identifies a row in
      clmgmtDevCredExportActionTable. The management application
      chooses this value by reading
      clmgmtNextFreeDevCredExportActionIndex while creating an
      entry in this table. If an entry already exists with this
      index, the creation of the entry will not continue and
      error will be returned. The management application should
      read the value of clmgmtNextFreeDevCredExportActionIndex
      again and retry with the new value for this object."
   ::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE
   SYNTAX         PhysicalIndexOrZero
   MAX-ACCESS     read-create
   STATUS         current
   DESCRIPTION
```

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

Note: This object need not be set if it is a stand alone
device"
DEFVAL { 0 }
::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE
SYNTAX ClmgmtLicenseTransferProtocol
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the transfer protocol to be used when
copying files as specified in the following objects.
1. clmgmtDevCredExportFile
."
DEFVAL { none }
::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the transport type of the
address contained in clmgmtDevCredServerAddress object.
This must be set when clmgmtDevCredTransferProtocol
is not none(1) or local(2)."
DEFVAL { unknown }
::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the the ip address of the server
from which the files must be read or written to if
clmgmtDevCredTransferProtocol is not none(1) or local(2).

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

```
        allowed.

        The format of this address depends on the value of the
        clmgmtDevCredServerAddressType
    object"
    DEFVAL      { "" }
    ::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE  (0..96))
    MAX-ACCESS      read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the remote user name for accessing
        files via ftp, rcp, sftp or scp protocols. This object
        must be set when the clmgmtDevCredTransferProtocol is
        ftp(4), rcp(5), scp(7) or sftp(8). If
        clmgmtDevCredTransferProtocol is rcp(5), the remote
        username is sent as the server username in an rcp command
        request sent by the system to a remote rcp server."
    DEFVAL      { "" }
    ::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE  (0..96))
    MAX-ACCESS      read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the password used by ftp, sftp or
        scp for copying
    a file to/from an ftp/sftp/scp server.
        This object must be set when the
        clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
        sftp(8). Reading it returns a zero-length string for
        security reasons."
    DEFVAL      { "" }
    ::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE  (0..255))
    MAX-ACCESS      read-create
    STATUS      current
    DESCRIPTION
        "This object represents file where device credentials needs
        to be exported to."
    ::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE
```

```
  SYNTAX        INTEGER  {
                  noOp(1),
                  getDeviceCredentials(2)
                }
  MAX-ACCESS     read-create
  STATUS         current
  DESCRIPTION
     "This object indicates the the command to be executed.

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

     getDeviceCredentials(2)    Exports device credentials"
  DEFVAL         { noOp }
  ::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE
  SYNTAX         ClmgmtLicenseActionState
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the state of the action that is
     executed as a result of setting clmgmtDevCredRowStatus
     to active(1)."
  ::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE
  SYNTAX         INTEGER  {
                  none(1),
                  unknownError(2),
                  transferProtocolNotSupported(3),
                  fileServerNotReachable(4),
                  unrecognizedEntPhysicalIndex(5),
                  invalidFile(6)

    }
  MAX-ACCESS     read-only
  STATUS         current
  DESCRIPTION
     "This object indicates the the reason for device
     credentials export operation failure.

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

```
      none(1)        - action execution has not started yet.
                       If the action is completed and the
                       action is successful, then also
                       none(1) is returned to indicate that
                       there are no errors.
      unknownError(2) - reason for failure is unknown,
                       operation failed, no operation is
                       performed
      transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
                                given is not supported.
      fileServerNotReachable(4)       - file server is not reachable.
      unrecognizedEntPhysicalIndex(5) - entPhysicalIndex
 is not
                                valid
      invalidFile(6)  - The target file specified is not valid."
   ::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE
   SYNTAX         StorageType
   MAX-ACCESS     read-create
   STATUS         current
   DESCRIPTION
      "This object indicates the storage type for this conceptual
      row. Conceptual rows having the value 'permanent' need not
      allow write-access to any columnar objects in the row."
   DEFVAL         { volatile }
   ::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE
   SYNTAX         RowStatus
   MAX-ACCESS     read-create
   STATUS         current
   DESCRIPTION
      "This object indicates the the status of this table entry.
      Once the entry status is set to active(1), the associated
      entry cannot be modified until the action completes
      (clmgmtDevCredCommandStatus is set to a value
      other than
 inProgress(3)). Once the action completes
      the only operation possible after this is to delete
      the row.

      clmgmtDevCredExportFile is a mandatory object to be
      set when creating this entry."
   ::= { clmgmtDevCredExportActionEntry 13 }
```

```
-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
     "This object indicates whether the device should generate
     the notifications related to usage of licenses. This object
     enables/disables sending following notifications:
        clmgmtLicenseExpired
        clmgmtLicenseExpiryWarning
        clmgmtLicenseUsageCountExceeded
        clmgmtLicenseUsageCountAboutToExceed
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
        clmgmtLicenseEvalRTUTransitionWarning
         clmgmtLicenseEvalRTUTransition"
  DEFVAL         { true }
  ::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
     "This object indicates whether the device should generate
     notifications related to license deployment. This object
     enables/disables sending following notifications:
        clmgmtLicenseInstalled
        clmgmtLicenseCleared
        clmgmtLicenseRevoked
        clmgmtLicenseEULAAccepted"
  DEFVAL         { true }
  ::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE
  SYNTAX         TruthValue
  MAX-ACCESS     read-write
  STATUS         current
  DESCRIPTION
     "This object indicates whether the device should generate
     notifications related to error conditions in enforcing
     licensing. This object
 enables/disables sending following
     notifications:
        clmgmtLicenseNotEnforced"
```

```
  DEFVAL        { true }
  ::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent, when a feature license
     expires. This notification will be sent continuously
     every week even after the expiry to alert the management
     application."
 ::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion,
                  clmgmtFeatureValidityPeriodRemaining
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent when a license is about to

    expire. This notification will go out multiple times.
     First notification goes out when expiry day is 4 weeks
     ahead, second notification when expiry day is 3 weeks
     ahead, third notification when expiry day is 2 weeks
     ahead. This notification will go out daily in the
     last week of license expiry."
 ::= { ciscoLicenseMgmtMIBNotifs 2 }

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtLicenseFeatureName,
                  clmgmtLicenseFeatureVersion,
                  clmgmtLicenseMaxUsageCount,
                  clmgmtFeatureWhatIsCounted,
                  clmgmtLicenseComments
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent when clmgmtLicenseUsageCountRemaining
     has reached clmgmtLicenseMaxUsageCount for a counting license."
```

```
  ::= { ciscoLicenseMgmtMIBNotifs 3 }

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE
    OBJECTS        {
                     clmgmtLicenseFeatureName,
                     clmgmtLicenseFeatureVersion,
                     clmgmtLicenseMaxUsageCount,
                     clmgmtLicenseUsageCountRemaining,
                     clmgmtFeatureWhatIsCounted,
                     clmgmtLicenseComments
                   }
    STATUS         current
    DESCRIPTION
        "This notification is sent when clmgmtLicenseUsageCountRemaining
        has reached 80% of clmgmtLicenseMaxUsageCount for a counting
        license. This is a warning notification to the management
        application that very soon the maximum count will be reached
        and after that the device will not allow new entities to
        make use of this license."
    ::= { ciscoLicenseMgmtMIBNotifs 4 }

clmgmtLicenseInstalled NOTIFICATION-TYPE
    OBJECTS        {
                     clmgmtLicenseFeatureName,
                     clmgmtLicenseFeatureVersion,

                   clmgmtLicenseType,
                     clmgmtLicenseComments
                   }
    STATUS         current
    DESCRIPTION
        "This notification is sent when a license is installed
        successfully."
    ::= { ciscoLicenseMgmtMIBNotifs 5 }

clmgmtLicenseCleared NOTIFICATION-TYPE
    OBJECTS        {
                     clmgmtLicenseFeatureName,
                     clmgmtLicenseFeatureVersion,
                     clmgmtLicenseType,
                     clmgmtLicenseComments
                   }
    STATUS         current
    DESCRIPTION
        "This notification is sent when a license is cleared
        successfully."
    ::= { ciscoLicenseMgmtMIBNotifs 6 }
```

```
clmgmtLicenseRevoked NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtLicenseFeatureName,
                  clmgmtLicenseFeatureVersion,
                  clmgmtLicenseType,
                  clmgmtLicenseComments
                }
  STATUS
      current
  DESCRIPTION
     "This notification is sent when a license is revoked
     successfully."
 ::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent when a user accepts End User
     License Agreement (EULA) for a license."
 ::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
     "This notification is sent when a license does not
     exist for a feature, but the feature is a mandatory
     feature and it should run. This notification will be
     sent out periodically to indicate that there is no

 license installed for this feature and it needs to
     be done as soon as possible."
 ::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion,
                  clmgmtFeatureEndDate
                }
  STATUS        current
```

```
  DESCRIPTION
     "This notification is sent when a subscription license of a
     feature is about to expire. This notification will be sent as
     per the following schedule:
     Once a week for the last eight weeks
     Once a day for the last week
     Once a hour for the last day"
  ::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion,
                   clmgmtFeatureEndDate
                 }
  STATUS
 current
  DESCRIPTION
     "This notification is sent when the subscription license end
     date of a feature is reached but extension period is left. This
     notification will be sent once a day after the license end date
     is reached."
  ::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion,
                   clmgmtFeatureEndDate
                 }
  STATUS         current
  DESCRIPTION
     "This notification will be sent after a subscription license
     of a feature completely expires. It will be sent once a day
     after the license has completely expired"
  ::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE
  OBJECTS        {
                   clmgmtFeatureName,
                   clmgmtFeatureVersion,
                   clmgmtFeatureValidityPeriodRemaining
                 }
  STATUS         current
  DESCRIPTION
     "This notification is sent when Evaluation to Right to use (RTU)
     license transition is about to happen. The first notification
     will be sent 10 days before the transition and second
```

```
      notification will be sent 5 days before the transition."
  ::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
  OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion
                }
  STATUS        current
  DESCRIPTION
      "This notification is sent, when a feature license transitions
      from a evaluation to a Right to use (RTU) license."
  ::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

ciscoLicenseMgmtCompliances  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups  OBJECT IDENTIFIER
  ::= { ciscoLicenseMgmtMIBConform 2 }


ciscoLicenseMgmtCompliance
 MODULE-COMPLIANCE
  STATUS        deprecated
  DESCRIPTION
      "Compliance statement for Cisco license mgmt MIB."
  MODULE        -- this module
  MANDATORY-GROUPS {
                  clmgmtLicenseDeploymentGroup,
                  clmgmtLicenseDeviceInformationGroup,
                  clmgmtLicenseInformationGroup,
                  clmgmtLicensableFeatureInformationGroup,
                  clmgmtLicenseDevCredGroup,
                  clmgmtLicenseNotificationEnableGroup,
                  clmgmtLicenseUsageNotifGroup,
                  clmgmtLicenseDeploymentNotifGroup,
                  clmgmtLicenseErrorNotifGroup
                }

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

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
```

```
    STATUS        current
    DESCRIPTION
        "Compliance statement for Cisco license mgmt MIB."
    MODULE        -- this module
    MANDATORY-GROUPS {
                clmgmtLicenseDeploymentGroup,
                clmgmtLicenseDeviceInformationGroup,
                clmgmtLicenseInformationGroup,
                clmgmtLicensableFeatureInformationGroup,
                clmgmtLicenseDevCredGroup,
                clmgmtLicenseNotificationEnableGroup,
                clmgmtLicenseUsageNotifGroup,
                clmgmtLicenseDeploymentNotifGroup,
                clmgmtLicenseErrorNotifGroup
            }

    GROUP         clmgmtLicenseStoreInformationGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license stores are supported."

    GROUP         clmgmtLicenseSubscriptionGroup
    DESCRIPTION
        "This object group is mandatory for all devices
    that
        support subscription licensing."

    GROUP         clmgmtLicenseSubscriptionUsageNotifGroup
    DESCRIPTION
        "This notification group is mandatory for all devices that
        support subscription licensing."

    GROUP         clmgmtLicenseRTUGroup
    DESCRIPTION
        "This object group is mandatory for all devices that
        support Right to Use (RTU) licensing."

    GROUP         clmgmtLicenseRTUUsageNotifGroup
    DESCRIPTION
        "This notification group is mandatory for all devices that
        support Right to use (RTU) licensing."
    ::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
    OBJECTS       {
                clmgmtNextFreeLicenseActionIndex,
```

```
                clmgmtLicenseActionEntPhysicalIndex,
                clmgmtLicenseActionTransferProtocol,
                clmgmtLicenseServerAddressType,
                clmgmtLicenseServerAddress,
                 clmgmtLicenseServerUsername,
                clmgmtLicenseServerPassword,
                clmgmtLicenseFile,
                clmgmtLicenseStore,
                clmgmtLicenseActionLicenseIndex,
                clmgmtLicensePermissionTicketFile,
                clmgmtLicenseRehostTicketFile,
                clmgmtLicenseBackupFile,
                clmgmtLicenseStopOnFailure,
                clmgmtLicenseAction,
                clmgmtLicenseActionState,
                clmgmtLicenseJobQPosition,
                clmgmtLicenseActionFailCause,
                clmgmtLicenseActionStorageType,
                clmgmtLicenseActionRowStatus,
                clmgmtLicenseIndivActionState,
                clmgmtLicenseIndivActionFailCause,
                clmgmtLicenseAcceptEULA,
                clmgmtLicenseEULAFile

    }
  STATUS        current
  DESCRIPTION
    "A collection of objects for performing license deployment
    i.e., license installation, clear and revoke"
  ::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtLicenseStoreName,
                clmgmtLicenseStoreTotalSize,
                clmgmtLicenseStoreSizeRemaining
              }
  STATUS        current
  DESCRIPTION
    "A collection of objects that provide information about
    license storages in the device."
  ::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
  OBJECTS       { clmgmtDefaultLicenseStore }
  STATUS        current
  DESCRIPTION
    "A collection of objects that provide information about
```

```
      device level licensing support information in the device."
   ::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP
    OBJECTS       {
                  clmgmtLicenseFeatureName,
                  clmgmtLicenseFeatureVersion,
                  clmgmtLicenseType,
                  clmgmtLicenseCounted,
                  clmgmtLicenseValidityPeriod,
                  clmgmtLicenseValidityPeriodRemaining,
                  clmgmtLicenseExpiredPeriod,
                  clmgmtLicenseMaxUsageCount,
                  clmgmtLicenseUsageCountRemaining,
                  clmgmtLicenseEULAStatus,
                  clmgmtLicenseComments,
                  clmgmtLicenseStatus
                }
   STATUS         current
   DESCRIPTION
      "A collection of objects that provide information about
      licenses and its state."
   ::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP
   OBJECTS       {
                  clmgmtFeatureName,
                  clmgmtFeatureVersion,

                  clmgmtFeatureValidityPeriodRemaining,
                  clmgmtFeatureWhatIsCounted
                }
   STATUS         current
   DESCRIPTION
      "A collection of objects that provide information about
      licensable features in the software image."
   ::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP
   OBJECTS       {
                  clmgmtNextFreeDevCredExportActionIndex,
                  clmgmtDevCredEntPhysicalIndex,
                  clmgmtDevCredTransferProtocol,
                  clmgmtDevCredServerAddressType,
                  clmgmtDevCredServerAddress,
                  clmgmtDevCredServerUsername,
                  clmgmtDevCredServerPassword,
                  clmgmtDevCredExportFile,
```

```
                clmgmtDevCredCommand,
                clmgmtDevCredCommandState,
                clmgmtDevCredCommandFailCause,

    clmgmtDevCredStorageType,
                clmgmtDevCredRowStatus
            }
  STATUS        current
  DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
  ::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
  OBJECTS       {
                clmgmtLicenseUsageNotifEnable,
                clmgmtLicenseDeploymentNotifEnable,
                clmgmtLicenseErrorNotifEnable
            }
  STATUS        current
  DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
  ::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                clmgmtLicenseExpired,
                clmgmtLicenseExpiryWarning,
                clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
            }
  STATUS        current
  DESCRIPTION
    "A collection of notifications related to license usage."
  ::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
 NOTIFICATIONS    {
                clmgmtLicenseInstalled,
                clmgmtLicenseCleared,
                clmgmtLicenseRevoked,
                clmgmtLicenseEULAAccepted
            }
  STATUS        current
  DESCRIPTION
```

```
      "A collection of notifications related to license deployment."
   ::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS    { clmgmtLicenseNotEnforced }
   STATUS         current
   DESCRIPTION
      "A collection of notifications related to license errors."
   ::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
   OBJECTS        {
                    clmgmtLicenseStartDate,
                     clmgmtLicenseEndDate,
                    clmgmtFeatureStartDate,
                    clmgmtFeatureEndDate
                  }
   STATUS         current
   DESCRIPTION
      "A collection of objects that provide information specific to
      subscription licenses."
   ::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS    {
                    clmgmtLicenseSubscriptionExpiryWarning,
                    clmgmtLicenseSubscriptionExtExpiryWarning,
                    clmgmtLicenseSubscriptionExpired
                  }
   STATUS         current
   DESCRIPTION
      "A collection of notifications related to usage of subscription
      licenses."
   ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
   OBJECTS        {
                    clmgmtLicensePeriodUsed,
                    clmgmtFeaturePeriodUsed

  }
   STATUS         current
   DESCRIPTION
      "A collection of objects that provide information specific to
      Right to use (RTU) licenses."
   ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
```

```
 NOTIFICATIONS    {
                  clmgmtLicenseEvalRTUTransitionWarning,
                  clmgmtLicenseEvalRTUTransition
                }
  STATUS          current
  DESCRIPTION
     "A collection of notifications related to Right to use (RTU)
     licenses."
  ::= { ciscoLicenseMgmtGroups 14 }

END


--%DNP%  MLC -Edit MLC

--%DNP%  MTF -TRUE MTF
/*
* Generated by ncsc --mib2yang-std
* Source: newjuniper/JUNIPER-LICENSE-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*      smidump -f yang JUNIPER-LICENSE-MIB
*
* Do not edit. Edit the source file instead!
*/

module JUNIPER-LICENSE-MIB {

 namespace "urn:ietf:params:xml:ns:yang:smiv2:JUNIPER-LICENSE-MIB";
 prefix "juniper-license";

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

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

 organization
  "Juniper Networks, Inc.";

 contact
  "Juniper Technical Assistance Center
   Juniper Networks, Inc.
   1133 Innovation Way
```

```
  Sunnyvale, CA 94089
  E-mail: support@juniper.net";

 description
  "Implementation of enterprise specific MIB
  for license commands and configuration.";

 revision 2019-06-17 {
  description
   "Deprecated jnxLicenseKeys.";
 }

 revision 2016-12-15 {
  description
   "Added OID jnxLicenseKeyType and Trap jnxLicenseExpired";
 }

 revision 2010-07-09
 {
  description
   "Initial version.";
 }


 container JUNIPER-LICENSE-MIB {
  config false;

  container jnxLicenseSettings {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";

    leaf jnxLicenseRenewBeforExpiration {
      type int32;
      description
       "License renew lead time before expiration in days.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";
    }

    leaf jnxLicenseRenewInterval {
      type int32;
      description
       "License checking interval in hours.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";
    }

    leaf jnxLicenseAutoUpdate {
      type snmpv2-tc:DisplayString;
```

```
      description
       "License auto update URL of a license server.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
     }
    }

    container jnxLicenseInstallTable {
     description
      "This table contains installed
  feature license information.";
     smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

     list jnxLicenseInstallEntry {
      key "jnxLicenseId";
      smiv2:implied "jnxLicenseId";
      description
       "A row of giving installed feature license information.";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

      leaf jnxLicenseId {
       type snmpv2-tc:DisplayString;
       description
        "Installed feature licenses Id.";
       smiv2:max-access "not-accessible";
       smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
      }

      leaf jnxLicenseVersion {
       type int32;
       description
        "License Version information";
       smiv2:max-access "read-only";
       smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.2";
      }

      leaf jnxLicenseDeviceId {
       type snmpv2-tc:DisplayString;
       description
        "License Device Id ";
       smiv2:max-access "read-only";
       smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.3";
      }

      leaf jnxLicenseType {
       type enumeration {
        enum "invalid" {
         value "0";
```

```
        }
        enum "count-down" {
          value "1";
        }
        enum "date-based" {
          value "2";
        }
        enum "permanent" {
          value "3";
        }
      }
      description
       "License type information";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
    }

    leaf jnxLicenseKeys {
      type binary;
      status deprecated;
      description
       "******** THIS OBJECT IS DEPRECATED ********
        This object is deprecated,
        it displays all the license keys
        in the system.";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
    }

    leaf jnxLicenseKeyType {
      type enumeration
{
        enum "commercial" {
          value "1";
        }
        enum "trial" {
          value "2";
        }
        enum "demo" {
          value "3";
        }
        enum "emergency" {
          value "4";
        }
        enum "lab" {
          value "5";
        }
        enum "education" {
```

```
        value "6";
       }
      }
      description
       "License key type";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
    }
  }
}

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

  list jnxLicenseFeatureListEntry {
    key "jnxLicenseFeatureId";
    description
     "A row of licensed features.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

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

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

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

    leaf jnxLicenseFeatureLicenseId {
      type snmpv2-tc:DisplayString;
```

```
        description
         "Feature License Id";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
       }

       leaf jnxLicenseFeatureLicenseUsed {
        type int32;
        description

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

       leaf jnxLicenseFeatureLicenseInstalled {
        type int32;
        description
         "Licenses Installed";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
       }

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

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

   container object-1 {

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

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

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

  container object-1 {

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

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

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

  container object-1 {

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

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

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

  container object-1 {

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

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

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

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
```

```
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

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

 notification jnxLicenseKeyExpired {
  description
   "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

  container object-1 {

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

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

  container object-2 {

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

    leaf jnxLicenseFeatureLicenseId {
```

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

  container object-3
 {

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

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

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

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

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

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

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

}
```

```
module openconfig-license {

 yang-version "1";

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

 prefix "oc-license";

 import openconfig-extensions { prefix oc-ext; }

 organization "OpenConfig working group";

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

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

 oc-ext:openconfig-version "0.2.0";

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

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

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


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

   leaf license-id {
     type string;
     description
       "License ID. A string that uniquelly identifies
```

```
the license. The
      platform should list all the licenses it supports being activated.";
  }

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

  leaf active {
    type boolean;
    default false;
    description
      "The activation state of the license.";
  }

}

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

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

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

  leaf expiration-date
{
    type uint64;
    description
      "The date and time at which the license will expire, expressed as the
       number of nanoseconds since the Unix Epoch
```

```
      (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
  }

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

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

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

}

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

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

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

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

      container config {
```

```
        description
          "Configuration data for license";

        uses license-config;
       }

       container state {

        config false;

        description
          "Operational state data for license.";

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

 }

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

   container license {
     description
       "Container for license model";

     uses licenses-top;

   }
 }

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

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

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

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

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

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

organization
 "Cisco Systems Inc.";

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

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

  The image level licensing mechanism works as follows -

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

scenarios explains some use-cases of image level licensing:

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

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

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

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

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

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

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

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

```
}

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

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

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

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


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

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

    leaf cilmEULAAccepted {
      type boolean;
      description
       "This object when set to TRUE means that the user has
        accepted the END USER LICENSE AGREEMENT. This object
        has to be set to TRUE by the user before using the
        objects in the cilmBootImageLevelTable to configure
        the license.";
      smiv2:defval
```

```
"false";
      smiv2:max-access "read-write";
      smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
    }
  }

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

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

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

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

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

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

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

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

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

          Note: The configured next boot image level may not
          be the actual next boot image level. The actual next
          boot image level is denoted by cilmNextBootImageLevel
```

```
          which is determined based on the license availability.";
        smiv2:max-access "read-write";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
      }

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

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

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

        smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
      }

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

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

      leaf cilmNextBootLicenseStoreIndex {
```

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

      CISCO-LICENSE-MGMT-MIB.

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

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

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

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

    list cilmImageLevelToLicenseMapEntry {
      key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
      description
       "An entry in the table containing the following
        information.
        - The image levels at the which the modules can be run.
```

```
        - The license required to the run a module at a
          particular image level.
          - The priority of the license.";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

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

        leaf cilmModuleName {
          type leafref {

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

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

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

        leaf cilmImageLicenseName {
          type cisco-image-license-mgmt-mib:LicenseNameList;
          description
           "This object indicates the list of licenses needed to
            be installed for the module to run at the image level
            mentioned by cilmImageLicenseImageLevel object of this
```

```
          entry.";
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
       }

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

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

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

  container object-1 {

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

    leaf cilmModuleName {
     type leafref {
```

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

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

  container object-2 {

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

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

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

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

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

```
 }

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

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

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

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

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

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

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

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

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

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

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

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

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

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

jnxLicenseInstallEntry   OBJECT-TYPE
  SYNTAX           JnxLicenseInstallEntry
  MAX-ACCESS       not-accessible
  STATUS           current
  DESCRIPTION      "A row of giving installed
```

```
 feature license information."
  INDEX           {  IMPLIED jnxLicenseId  }
  ::=  { jnxLicenseInstallTable 1 }

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

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

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

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

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

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

```
-- Feature Listing Table

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

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

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

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

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

jnxLicenseFeatureDescr OBJECT-TYPE
  SYNTAX
        DisplayString
  MAX-ACCESS           read-only
  STATUS              current
  DESCRIPTION          "Feature Name"
```

```
  ::= { jnxLicenseFeatureListEntry 3 }

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

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

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

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


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

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

jnxLicenseRenewInterval  OBJECT-TYPE
  SYNTAX            INTEGER
  MAX-ACCESS        read-only
  STATUS            current
```

```
  DESCRIPTION
     "License checking interval in hours."
  ::= { jnxLicenseSettings  2 }

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



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

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

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

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

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

jnxLicenseInfringeCumulative NOTIFICATION-TYPE
  OBJECTS  { jnxLicenseFeatureName }
  STATUS   current
  DESCRIPTION
```

```
      "The SNMP trap that is generated when the feature is used more
       times than as specified in number of licenses allowed for feature
       as identified by jnxLicenseFeatureName"
  ::= { jnxLicenseNotifications 4 }

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


END
```

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```
package ssh
import (
  dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
 Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
```

}
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# 1.395 robot-robot-api 0.0.0-20220331043702-9856f0190951

## 1.395.1 Available under license :

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

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

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

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

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

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

```
func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_3f84d6967c8545c6, []int{0}
}
func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (dst *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(dst, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var
 xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

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

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

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

func init() {
```

```
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_cw_ztp_license_3f84d6967c8545c6)
}

var fileDescriptor_cw_ztp_license_3f84d6967c8545c6 = []byte{
 // 222 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
 0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
 0x9a, 0xa9, 0x85, 0xfe, 0x7a, 0x69, 0xb7,
 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
 0xfb, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48, 0x58, 0x5f, 0xc2, 0xfe,
 0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
 0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xfc, 0xc5, 0xf9, 0x92, 0xf2, 0xfb, 0x90, 0xad, 0x6f, 0x78, 0x15,
 0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
 0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
 0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xab, 0x5b, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
 0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
 0xb0, 0xe5, 0xab, 0x0f, 0xb4, 0xde, 0xf5, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0xf4, 0xbc, 0x9b, 0x7f,
 0xa8, 0x13, 0xe2, 0xe5, 0xf8, 0x83, 0xc7, 0x68, 0x92, 0x57, 0x23, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
 0xdf, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01,
 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

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

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

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

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

type ZtpLicenseDevice struct {
```

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

func (m *ZtpLicenseDevice) Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_5d0962a636523684, []int{0}
}
func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(dst, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice
 proto.InternalMessageInfo

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

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

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_cw_ztp_license_device_5d0962a636523684)
}
```

```
var fileDescriptor_cw_ztp_license_device_5d0962a636523684 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13,
 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42, 0xbc, 0x6c, 0x42,
 0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
 0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
 0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
 0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
 0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
 0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

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

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"

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

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

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

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
```

```
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_cw_ztp_license_device_v2_48f3803c4d253b46, []int{0}
}
func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(dst, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func
 (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

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

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

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

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

```
func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto",
fileDescriptor_cw_ztp_license_device_v2_48f3803c4d253b46)
}

var fileDescriptor_cw_ztp_license_device_v2_48f3803c4d253b46 = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7,
 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65, 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
 0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
 0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
 0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
 0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
 0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
 0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb,
 0x77, 0x91, 0x55, 0x0f,
 0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
 0x00, 0xff, 0xff, 0x66, 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
```

# 1.396 chardet 4.0.0

## 1.396.1 Available under license :

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Version 2.1, February 1999

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the Lesser General Public License.

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

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# 1.398 tenacity 8.0.1

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# 1.399 idna 3.3

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(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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# 1.401 packaging 20.9

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# 1.402 openssl 1.1.1l

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# 1.405 golang-lru 0.5.1

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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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

# 1.418 python-certifi 2021.10.8

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
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ca-bundle.crt -- Bundle of CA Root Certificates

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

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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# 1.421 python-certifi 2020.12.05

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

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

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

# 1.422 hashicorp-go-version 1.2.1

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# 1.437 spew 1.1.1

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# 1.438 opentracing-go 1.2.0

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# 1.439 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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# 1.448 fdisk 2.34.0

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# 1.452 gokrb5 8.4.2

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# 1.470 tomli 1.2.2

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# 1.481 errors 0.9.1

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# 1.482 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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# 1.483 logrus 1.8.1

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# 1.485 python 3.8.2-0ubuntu2

## 1.485.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
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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 |
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| 2.6 | 2.5 | 2008 | PSF | yes |
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| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
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| 2.6.4 | 2.6.3 | 2009 | 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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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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

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

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
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| 3.3 | 3.2 | 2012 | PSF | yes |

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

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

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |

| | | | | |
|---|---|---|---|---|
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
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| 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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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c

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

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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# 1.500 tre 0.8.0

## 1.500.1 Available under license :

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# 1.501 sqlite 3.36.0-r0

## 1.501.1 Available under license :

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

Found in path(s):
* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/shell.c
No license file was found, but licenses were detected in source scan.

/*

```
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
 is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
```

** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation
 statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]

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

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

```
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom
 page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter
 to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()]
 or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
```

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

** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either
 the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
**
 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
**
 [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.

```
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that
 its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is
 never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
```

```
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
******************************************************************************
**
** This file
 contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory
 Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**   *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
```

** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found
 in path(s):
* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.c
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
 is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with

```
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
```

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

** is exhausted.
** ^If pMem is NULL and N is non-zero, then
 each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum
 allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the
 content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]

** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing
 subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom
 page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter
 to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].

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

fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either
the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
**
bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting

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

*/

Found in path(s):
* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.h

# 1.502 wget 1.20.3-1ubuntu2

## 1.502.1 Available under license :

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Version 3, 29 June 2007

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# 1.508 musl 1.2.2-r7

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# 1.512 xz 5.2.5-r0

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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# 1.515 libssh 0.9.3-2ubuntu2.2

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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
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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# 1.517 libtasn 4.16.0-2

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its purpose remains meaningful.

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hostname -- set the host name or show the host/domain name

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# 1.528 ncurses 6.3_p20211120-r0

## 1.528.1 Available under license :

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

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References: <20110813065417.GV2324@audi.shelbyville.oz>
From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
Ivo Emanuel Goncalves <justivo@gmail.com>

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.
---
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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
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In May 2000, Guido and the Python core development team moved to
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|---|---|---|---|---|
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| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
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| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>.  He
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will operate
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<one line to give the program's name and a brief idea of what it does.>
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Version 3, 29 June 2007

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## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT

```
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
```

$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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

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========

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freedom of users.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

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

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 under this
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``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work
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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
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through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

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

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

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

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to

control those activities.  However,
 it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
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@item
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requirement modifies the requirement in section 4 to ``keep intact all notices''.

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@end enumerate

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

@item
Convey individual copies of the object code with a copy of the written
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received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through
 the same place at no
further charge.  You need not require recipients to copy the
Corresponding Source along with the object code.  If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.
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@item
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@end enumerate

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from the Corresponding Source as a System Library, need not be
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 object code work.

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Library.
This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
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 versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
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- libgomp
- libitm
- libssp
- libstdc++-v3
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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 Zlib data compression library:
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The Phobos standard runtime library:
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./gm2-libs/sckt.def:

./gm2-libs/Indexing.def:
./gm2-libs/Builtins.mod:
./gm2-libs/SFIO.mod:
./gm2-libs/MathLib0.mod:
./gm2-libs/gdbif.mod:
./gm2-libs/M2EXCEPTION.mod:
./gm2-libs/SFIO.def:
./gm2-libs/StringConvert.mod:
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./gm2-libs/config-host.in:
./gm2-libs/Indexing.mod:
./gm2-libs/errno.def:

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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# 1.574 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

## 1.574.1 Available under license :

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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /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
No license file was found, but licenses were detected in source scan.

('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")

'License: ' + self.distribution.get_license(),

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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executable.

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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***********************************************************************/

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
| NAME [Details] [Repeater]
| '(' Alternatives ')' [Repeater]
| '[' Alternatives ']'
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
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

# 1.575 libseccomp 2.5.1-1ubuntu1~20.04.2

## 1.575.1 Available under license :

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Version 2.1, February 1999

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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---

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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*/

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Source:
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# 1.592 libogg 1.3.4-0ubuntu1

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id 1QsTXr-0004MO-Ek
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In-Reply-To: <20110813065417.GV2324@audi.shelbyville.oz>
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From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
Ivo Emanuel Goncalves <justivo@gmail.com>

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This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:
ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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This package was put together by me, Mark Baker <mbaker@iee.org> from the
original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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------------

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

---
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-- vile: txtmode file-encoding=utf-8

# 1.605 pcre 10.34-7

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THE BASIC LIBRARY FUNCTIONS
---

Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>
Source: https://alioth.debian.org/projects/collab-maint/sensible-utils.git

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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# 1.608 libsepol 3.0-1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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```
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#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.
```

# 1.618 libidn 2.2.0-2

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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.
*/

# 1.620 bash 5.0-6ubuntu1.1

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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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# 1.624 gstreamer 1.16.2-2

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# 1.628 gsettings-desktop-schemas 3.36.0-1ubuntu1

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That's all there is to it!

# 1.629 coreutils 8.30-3ubuntu2

## 1.629.1 Available under license :

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# 1.630 gdbm 1.22-r0

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*/

Found in path(s):
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

```
*
 /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
```

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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```
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 /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h.  The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked.  Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since

both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by
Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have
no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other

possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron.  Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root.  Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive.  You will also need to hack the code some.

Found in path(s):
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# */

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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low license fee just to have them take it. In the unlikely event that they do this, I will continue to support and distribute the pseudo-PD version, so please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into
ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README
No license file was found, but licenses were detected in source scan.

```
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.\"
.\" @(#)bitstring.3 5.1
 (Berkeley) 12/13/89
.\"
```

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* @(#)bitstring.h 5.2
(Berkeley) 4/4/90
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*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/

Found in path(s):
* /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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.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * 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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# 1.632 gettext 0.21-r0

## 1.632.1 Available under license :

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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
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if the work is a derivative of the Library, you may
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@item
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this License. Also, you must do one
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@enumerate a
@item
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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
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@item
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and (2) will operate
properly with a modified version of the library, if the user installs
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@item
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@enumerate a
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@item
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@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page
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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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@center Version 2, June 1991

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stating
 that you changed the files and the date of any change.

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@end enumerate

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Accompany it with a written offer, valid for at least three
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received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name
 and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License.  Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary.  Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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 Public License does not permit incorporating your program into
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Version 2.1, February 1999

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^L
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software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
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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.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in

order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under
the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and
can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the 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.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will
operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
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# 1.634 diffutils 3.7-3

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==========

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

# 1.639 d-conf 0.36.0-1

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tar, heavily based on John Gilmore's public domain version of tar,
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This package is maintained for Debian by Janos Lenart <ocsi@debian.org>, and
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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
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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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.\" */
.\"
.\" $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
 be stuck on a AT&T UNIX,
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any comp.sources.unix archive.  You will also need to hack the code some.

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.\" */
.\"

.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

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# */

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems.  It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs).  No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing.  If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs).  It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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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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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
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src/arc4random.c
src/arc4random_linux.h

src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/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
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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd

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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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support/man2html.c

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | | |

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---|---|---|---|---|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |

| | | | | |
|---|---|---|---|---|
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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# 1.682 pythonurllib 1.25.8-2ubuntu0.1

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@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]

# 1.683 base-files 11ubuntu5.5

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
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Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022

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 Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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*/
/* zutil.c -- target dependent utility functions for the compression library
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*/

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++++++++++++++++

Dean Elsner wrote the original gas for vax.  [more details?]

Jay Fenlason maintained gas for a while, adding support for

gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's

opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If

you've contributed significant work and are not mentioned on this list, and
want to be, let us know.  Some of the history has been lost;
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intentionally leaving anyone out.

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d) If a facility in the modified

Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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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.

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distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered
by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6. Any
executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the
user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy

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[This is the first released version of the library GPL. It is
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 The reason we have a separate public license for some libraries is that
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treats it as such.

 Because
 of this blurred distinction, using the ordinary General
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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.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

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SHA224, SHA256, SHA384, and SHA512

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RSA

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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 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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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