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1.5 pcre 8.39-12build1

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THE BASIC LIBRARY FUNCTIONS

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PCRE JUST-IN-TIME COMPILATION SUPPORT
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1.6 google-uuid 1.1.2

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1.10 urfave-cli v2.3.0
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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
SHAREDLIBCXXFLAGS = -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,-Bsymblic

## 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 =
## End BSD-specific setup
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1.12 go-testing-interface 1.0.0

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1.13 google-cloud-go v0.70.0
package cloud

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

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

func TestLicense(t *testing.T) {  
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
        if fi.Name() == "cbtdoc.go" {  
            return nil  
        }
        if fi.Name() == "bigtable/cmd/cbt/cbtdoc.go" {  
            return nil  
        }
        if err != nil {  
            t.Errorf("Failed to walk: %s
", err)
            return nil  
        }
        return nil  
    })
    if err != nil {  
        t.Errorf("Failed to walk: %s
", err)
        return nil  
    }
    ext := filepath.Ext(path)
    if 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 err != nil {  
        return nil  
    }
    return nil  
}

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// limitations under the License.
return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
  return nil
}
src = src[:140] // 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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A. HISTORY OF THE SOFTWARE

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

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

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

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

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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.

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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:
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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1.20 x-text 0.3.2

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1.21 go-nats 0.0.0-20171020231914-6f06d34c19fc

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package pq

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

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

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

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

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}
// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
if c, ok := c.(*NoticeHandlerConnector); ok {
    return c.noticeHandler
}
return nil
}

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

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1.23 urllib3 1.25.11

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* 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 Kluver <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 vending

* 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 ``urlib2.urlopen().geturl()`` behavior

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
1.24 asyncio 3.4.3

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1.25 isl 0.22.1-1

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/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
module 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 conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

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

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

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

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

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

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

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

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

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

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

    leaf cilmEULAAccepted {
      type boolean;
      description

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

smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
}
}

container cilmNotifCntl {

smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

leaf cilmImageLevelChangedNotif {

type boolean;

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

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

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

smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
}
}

container cilmBootImageLevelTable {

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

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

list cilmBootImageLevelEntry {

key "entPhysicalIndex cilmModuleName";
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.

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

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

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";
```
leaf cilmImageLicensePriority {
  type uint32 {
    range "1..255";
  }
  description
  "This object indicates the priority of the image level
  mentioned by cilmImageLicenseImageLevel object of this
  entry. The image level with the highest priority license
  will be considered as the default level in the absence of
  next boot image level configuration. For example if there
  are three licenses 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-"
smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
  smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

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

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

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

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

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JUNIPER-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
-- ****************************************************************

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

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

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

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

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

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE
OBJECTS  { jnxLicenseFeatureName }

Open Source Used In Crosswork Change Automation and Health Insights 4.1.0  323
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 {

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

  The new module compliance is ciscoLicenseMgmtComplianceRev1.”;
}
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 {
typedef ClmgmtLicenseActionState {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "pending" {
      value "2";
    }
    enum "inProgress" {
      value "3";
    }
    enum "successful" {
      value "4";
    }
  }
}

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

description
"The state of license action execution.

none(1) - action is not yet scheduled to be executed.
pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.
inProgress(3) - action execution has started and is in progress.
successful(4) - action has completed successfully.

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

failed(6) - action has failed."

typedef ClmgmtLicenseActionFailCause {
type enumeration {
    enum "none" {
        value "1";
    }
    enum "generalFailure" {
        value "2";
    }
    enum "transferProtocolNotSupported" {
        value "3";
    }
    enum "fileServerNotReachable" {
        value "4";
    }
}
enum "unrecognizedEntPhysicalIndex" {
    value "5";
}
enum "invalidLicenseFilePath" {
    value "6";
}
enum "invalidLicenseFile" {
    value "7";
}
enum "invalidLicenseLine" {
    value "8";
}
enum "licenseAlreadyExists" {
    value "9";
}
enum "licenseNotValidForDevice" {
    value "10";
}
enum "invalidLicenseCount" {
    value "11";
}
enum "invalidLicensePeriod" {
    value "12";
}
enum "licenseInUse" {
    value "13";
}
enum "invalidLicenseStore" {
    value "14";
}
enum "licenseStorageFull" {
    value "15";
}
enum "invalidPermissionTicketFile" {
    value "16";
}
enum "invalidPermissionTicket" {
    value "17";
}
enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket" {
    value "19";
}
enum "invalidLicenseBackupFile" {
    value "20";
}
enum "licenseClearInProgress" {
    value "21";
}

enum "invalidLicenseEULAFile" {
    value "22";
}

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

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.
generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.
transferProtocolNotSupported(3) - protocol selected is not supported.
fileServerNotReachable(4) - file server is not reachable.
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid
invalidLicenseFilePath(6) - The license file path is not accessible.
invalidLicenseFile(7) - Contents of license file are not valid.
invalidLicenseLine(8) - License string in the license file is not valid.
licenseAlreadyExists(9) - Management application is trying to install a license that already exists.
licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.
invalidLicenseCount(11) - Invalid count for this counted license.
invalidLicensePeriod(12) - Validity period is invalid for this expiring license.
licenseInUse(13) - License file is in use by a feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is no more space in the
license storage.
invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.
invalidPermissionTicket(17) - The permission ticket file contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.
invalidRehostTicket(19) - The rehost ticket file contents are not valid.
invalidLicenseBackupFile(20) - License backup store path is not accessible.
licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.
invalidLicenseEULAF ile(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
  }
}
leaf clmgmtLicenseDeploymentNotifEnable {
  type boolean;
  description "This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:
    clmgmtLicenseInstalled
    clmgmtLicenseCleared
    clmgmtLicenseRevoked
    clmgmtLicenseEULAAccepted";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
}

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

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

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2"

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

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

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

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

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

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

1. Installing a license
   The following MIB objects need to be set for installing a license
   a. clmgmtLicenseActionTransferProtocol
   b. clmgmtLicenseServerAddressType
   c. clmgmtLicenseServerAddress
   d. clmgmtLicenseServerUsername
   e. clmgmtLicenseServerPassword
   f. clmgmtLicenseFile
   g. clmgmtLicenseStore
   h. clmgmtLicenseStopOnFailure
   i. clmgmtLicenseAcceptEULA
   j. clmgmtLicenseAction

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

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

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

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

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

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

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

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

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

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

leaf clmgmtLicenseActionEntPhysicalIndex {
  type entity-mib:PhysicalIndexOrZero;
  description "This object represents the entPhysicalIndex of the device where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples include stackable switches, devices with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}
leaf clmgmtLicenseActionTransferProtocol {
    type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
    description
    "This object represents the transfer protocol to be used when copying files as specified in the following objects.
    1. clmgmtLicenseFile
    2. clmgmtLicensePermissionTicketFile
    3. clmgmtLicenseRehostTicketFile
    4. clmgmtLicenseBackupFile

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

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

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

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

    The format of this address depends on the value of the clmgmtLicenseServerAddressType object";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}
leaf clmgmtLicenseServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
  
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object must
  be set when the clmgmtLicenseActionTransferProtocol is
  ftp(4), rcp(5), scp(7) or sftp(8). If
  clmgmtLicenseActionTransferProtocol is rcp(5), the remote
  username is sent as the server username in an rcp command
  request sent by the system to a remote rcp server."
  smiv2:default "";
  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:default "";
  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:default "";
  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 command/action to be executed.

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

smiv2:default "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-te:RowStatus;
  description
  "This object indicates 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.

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

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

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

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

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-mib:entPhysicalIndex";
            }
        }
    }
}
leaf clmgmtLicenseStoreIndex {
    type uint32 {
        range "1..4294967295";
    }
    description
    "This object uniquely identifies a license store within 
the device."
    smiv2:max-access "not-accessible"
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1"
}

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

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

leaf clmgmtLicenseStoreSizeRemaining {
    type uint32;
    units "bytes"
    description
    "This object indicates the number of bytes still remaining 
to be used for new license installations in the license 
store."
    smiv2:max-access "read-only"
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4"
}
container clmgmtLicenseDeviceInfoTable {
    description
    "This table contains objects that provide licensing related information at the device level. Entries will exist only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";
}

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

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

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

container clmgmtLicenseInfoTable {
    description
    "This table contains information about all the licenses installed on the device.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";
}
list clmgmtLicenseInfoEntry {
  key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";
  description
  "An entry in clmgmtLicenseInfoTable. Each entry contains
  information about a license installed on the device. This
  entry gets created when a license is installed successfully.
  Management application can not create these entries directly, but
  will do so indirectly by executing license install action.
  Some of these entries may already exist that correspond to
demo licenses even before management application installs any
licenses.";
  snmpv2: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.";
    snmpv2:max-access "not-accessible";
    snmpv2: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.";
    snmpv2:max-access "not-accessible";
    snmpv2: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";
    }
  }
}
description
"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.
extension(2) - Extension(expiring) license.
gracePeriod(3) - Grace period license.
permanent(4) - permanent license, the license has no expiry date.
paidSubscription(5) - Paid subscription licenses are the licenses which are purchased by customers. These licenses have a start date and end date associated with them.
evaluationSubscription(6) - Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.
extensionSubscription(7) - Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.
evalRightToUse(8) - Evaluation Right to use (RTU) license.
rightToUse(9) - Right to use (RTU) license.
permanentRightToUse(10) - Right To Use license right after it is configured and is valid for the lifetime of the product. This is a Right To Use license which is not in evaluation mode for a limited time.":

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";

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

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

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

leaf clmgmtLicenseExpiredPeriod {
  type uint32;
  units "seconds";
description
"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}
leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
  "This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

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

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

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

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

leaf clmgmtLicenseStatus {
type enumeration {
    enum "inactive" {
        value "1";
    }
    enum "notInUse" {
        value "2";
    }
    enum "inUse" {
        value "3";
    }
    enum "expiredInUse" {
        value "4";
    }
    enum "expiredNotInUse" {
        value "5";
    }
    enum "usageCountConsumed" {
        value "6";
    }
}

description
"This object represents status of the license.

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

leaf clmgmtLicenseStartDate {
    type snmpv2-tc:DateAndTime;
    description
    "This object indicates the start date for a subscription
    license. It is optional for subscription licenses to have a
    start date associated with them, they may only have an end
    date associated with them. This object may be applicable only
when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is not applicable.

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}

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

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

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

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1"

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

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

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

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

leaf clmgmtFeatureValidityPeriodRemaining {
  type uint32
}
units "seconds";

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

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

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

leaf clmgmtFeatureWhatIsCounted {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }

description
"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";
}

leaf clmgmtFeatureStartDate {
  type snmpv2-tc:DateAndTime;

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

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
  type snmpv2-tc:DateAndTime;

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

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

container clmgmtDevCredExportActionTable {
  description
  "A table for triggering device credentials export action. Management application must create this entry to trigger the export of device credentials from the device to a file. Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

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

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

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";
}

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 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 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."
  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 {
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
      }
    }
  }
}
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 {
        }
    }
    
    leaf clmgmtFeatureIndex {
        type leafref {
        }
    }
    
    leaf clmgmtFeatureVersion {
        type leafref {
        }
    }
}
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";
    }
  }

}
mib:clmgmtLicenseFeatureVersion;

c

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 {
    }
}

leaf clmgmtFeatureWhatIsCounted {
    type leafref {
    }
}

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 {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
        }
    }
}
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 {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
        }
    }

    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 {
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
    }
  }

  leaf clmgmtLicenseFeatureVersion {
    type leafref {
    }
  }
}

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 {
    }
  }
}
leaf clmgmtLicenseIndex {
    type leafref {
    }
}

leaf clmgmtLicenseMaxUsageCount {
    type leafref {
    }
}

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 {
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
    }
}

leaf clmgmtLicenseUsageCountRemaining {
    type leafref {
    }
}
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 {
    }
  }

  leaf clmgmtFeatureWhatIsCounted {
    type leafref {
    }
  }
}

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 {
  }
}

leaf clmgmtLicenseComments {
  type leafref {
  }
}

otif 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 {
    }
  }

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

leaf clmgmtLicenseStoreUsed {
    type leafref {
        }
    }
}

leaf clmgmtLicenseIndex {
    type leafref {
        }
    }
}

leaf clmgmtLicenseType {
    type leafref {
        }
    }
}

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 {
        }
    }
}
leaf clmgmtLicenseIndex {
    type leafref {
    }
}

leaf clmgmtLicenseComments {
    type leafref {
    }
}

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 {
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
            }
        }
    }
}
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 {
    }
  }
}

container object-3 {

  leaf entPhysicalIndex {
    type leafref {
    }
  }


leaf clmgmtLicenseStoreUsed {
  type leafref {
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
  }
}

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 {
    }
  }
  leaf clmgmtLicenseIndex {
    type leafref {
    }
  }
}
type leafref {
}

leaf clmgmtLicenseComments {
    type leafref {
    }
}

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 {
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
            }
        }
    }
}
leaf clmgmtLicenseFeatureName {
    type leafref {
    }
}

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 {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
        }
    }
}

container object-3 {

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

leaf clmgmtLicenseIndex {
    type leafref {
    }
}

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 {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
        }
    }

    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";
        }
    }
}
leaf clmgmtLicenseComments {
    type leafref {
    }
}

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 {
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
        }
    }
}
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 {
    } 
  } 

  leaf clmgmtFeatureVersion {
    type leafref {
    } 
  } 

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 {
        } 
      } 

    leaf clmgmtFeatureVersion {
      type leafref {
        } 
      } 

  } 

  } 

}
leaf clmgmtFeatureName {
  type leafref {
  }
}

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 {
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
  }
}

notification clmgmtLicenseExpirationWarning {
  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 {
        }
    }

    leaf clmgmtFeatureName {
        type leafref {
        }
    }

    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 {
            }
        }

        leaf clmgmtFeatureVersion {

        }

}
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type leafref {
}

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 {
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
        }
    }

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

leaf clmgmtFeatureIndex {
    type leafref {
    }
}

leaf clmgmtFeatureEndDate {
    type leafref {
    }
}

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 {
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
        }
    }
}
{ }

leaf clmgmtFeatureName {
  type leafref {
  }
}

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 {
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
  }
}

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 

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:clmgmtFeatureIndex";
  }
}
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 {


}

}

}

leaf clmgmtFeatureName {

type leafref {


}

}

}

}

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 {
  }
}

leaf clmgmtFeatureVersion {
  type leafref {
  }
}

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";
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

---

--- July 2006, Sunil Gudurvalmiki
---
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---
---
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:
- 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:
- Added RTU license definition to MIB description above.
- Updated clmgmtLicenseType object to support the following new types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
   clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
   clmgmtFeaturePeriodUsed
o Added the following notifications
   clmgmtLicenseEvalRTUTransitionWarning
   clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
   clmgmtLicenseRTUGroup
   clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.

REVISION        "200811210000Z"
DESCRIPTION
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
   paidSubscription
   evaluationSubscription
   extensionSubscription
o Added following objects to clmgmtLicenseInfoTable
   clmgmtLicenseStartDate
   clmgmtLicenseEndDate
o Added following objects to clmgmtLicensableFeatureTable
   clmgmtFeatureStartDate
   clmgmtFeatureEndDate
o Added the following notifications
   clmgmtLicenseSubscriptionExpiryWarning
   clmgmtLicenseSubscriptionExtExpiryWarning
   clmgmtLicenseSubscriptionExpired
o Added the following conformance groups
   clmgmtLicenseSubscriptionGroup
   clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.

REVISION        "200610030000Z"
DESCRIPTION
"Initial version of this MIB module."
::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIB 0 }
ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION
STATUS          current
DESCRIPTION
   "A unique value, for each license in the managed system.  
   It is not necessary to have values assigned contiguously. 
   The value for each license must remain constant 
   at least from one re-initialization of the entity's 
   network management system to the next re-initialization"
SYNTAX          Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION
STATUS          current
DESCRIPTION
   "This textual convention is an extension of the ClmgmtLicenseIndex 
   convention. The latter defines a greater than zero value 
   used to identify a license in the managed system. This 
   extension permits the additional value of zero. The value 
   zero is object-specific and must therefore be defined as 
   part of the description of any object which uses this 
   syntax. Examples of the usage of zero might include 
   situations where license was not present or unknown."
SYNTAX          Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION
STATUS          current
DESCRIPTION
   "The transfer protocol that should be used for copying files 
   when performing license management. When the protocol is 
   set to local(2), local file system (flash or disk) is used."
Different agents may support different transfer protocols and the management application is expected to somehow determine which protocol is supported and use.

```
SYNTAX INTEGER {
  none(1),
  local(2),
  tftp(3),
  ftp(4),
  rcp(5),
  http(6),
  scp(7),
  sftp(8)
}
```

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

```
STATUS            current
DESCRIPTION       "The state of license action execution.

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

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

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

  successful(4) - action has completed successfully.

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

  failed(6)     - action has failed."

SYNTAX INTEGER {
  none(1),
  pending(2),
  inProgress(3),
  successful(4),
  partiallySuccessful(5),
  failed(6)
}
ClngmtLicenseActionFailCause ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "Reason for license action failure. Defines error codes for all the license actions.

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.
generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.
transferProtocolNotSupported(3) - protocol selected is not supported.
fileServerNotReachable(4) - file server is not reachable.
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid
invalidLicenseFilePath(6) - The license file path is not accessible.
invalidLicenseFile(7) - Contents of license file are not valid.
invalidLicenseLine(8) - License string in the license file is not valid.
licenseAlreadyExists(9) - Management application is trying to install a license that already exists.
licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.
invalidLicenseCount(11) - Invalid count for this counted license.
invalidLicensePeriod(12) - Validity period is invalid for this expiring license.
licenseInUse(13) - License file is in use by a feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is no more space in the license storage.
invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.
invalidPermissionTicket(17) - The permission ticket file
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

c1mgmtLicenseActionEntPhysicalIndex need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

c1mgmtLicenseStore 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
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."
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
}

clampgntLicenseActionIndex 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 }

clampgntLicenseActionEntPhysicalIndex 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 command/action to be executed.

<table>
<thead>
<tr>
<th>Command</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>noOp(1)</td>
<td>No operation will be performed.</td>
</tr>
<tr>
<td>install(2)</td>
<td>Installs the license.</td>
</tr>
<tr>
<td>clear(3)</td>
<td>Clears the license.</td>
</tr>
<tr>
<td>processPermissionTicket(4)</td>
<td>Processes the permission ticket and generates and exports rehost ticket.</td>
</tr>
<tr>
<td>regenerateLastRehostTicket(5)</td>
<td>Generates and exports the last generated rehost ticket.</td>
</tr>
<tr>
<td>backup(6)</td>
<td>Backs up all the licenses installed currently onto a backup store.</td>
</tr>
</tbody>
</table>
| 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
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.

clmgmtLicenseActionFailCause OBJECT-TYPE
SYNTAX ClmgmtLicenseActionFailCause
MAX-ACCESS read-only
STATUS current

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

clmgmtLicenseActionStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current

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 }

clmgmtLicenseActionRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current

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 SnpAdminString,
  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 cannot 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 clmgmtLicensestoreId in clmgmtLicenseStoreInfoEntry"
of the license store used.
::= { clmgmtLicenseInfoEntry 1 }

c1mgmtLicenseIndex OBJECT-TYPE
SYNTAX ClmgmtLicenseIndex
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
   "This object uniquely identifies a license within
   the device."
::= { clmgmtLicenseInfoEntry 2 }

c1mgmtLicenseFeatureName 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 }

c1mgmtLicenseFeatureVersion 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 }

c1mgmtLicenseType OBJECT-TYPE
SYNTAX INTEGER { demo(1),
                extension(2),
                gracePeriod(3),
                permanent(4),
                paidSubscription(5),
                evaluationSubscription(6),
                extensionSubscription(7),
                evalRightToUse(8),
                rightToUse(9),
                permanentRightToUse(10)
                }
MAX-ACCESS read-only
STATUS current
DESCRIPTION

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

demo(1) - demo(evaluation license) license.
extension(2) - Extension(expiring) license.
gracePeriod(3) - Grace period license.
permanent(4) - permanent license, the license has no expiry date.
paidSubscription(5) - Paid subscription licenses are the licenses which are purchased by customers. These licenses have a start date and end date associated with them.
evaluationSubscription(6) - Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date associated with them and are issued once per UDI.
extensionSubscription(7) - Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.
evalRightToUse(8) - Evaluation Right to use (RTU) license.
rightToUse(9) - Right to use (RTU) license.
permanentRightToUse(10) - Right To Use license right after it is configured and is valid for the lifetime of the product. This is a Right To Use license which is not in evaluation mode for a limited time."

 ::= { clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates whether the license is counted license."
true(1) - counted license
false(2) - uncounted license

::= { clmgmtLicenseInfoEntry 6 }

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

::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE
SYNTAX    Unsigned32
UNITS      "seconds"
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE
SYNTAX    Unsigned32
UNITS      "seconds"
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount OBJECT-TYPE
SYNTAX    Unsigned32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

 ::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE
SYNTAX          Unsigned32
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION
"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

 ::= { clmgmtLicenseInfoEntry 11 }

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

 true(1) - EULA accepted
 false(2) - EULA not accepted"

 ::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE
SYNTAX          SnmpAdminString (SIZE  (0..255))
MAX-ACCESS      read-write
STATUS          current
DESCRIPTION
"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

 ::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE
SYNTAX          INTEGER  {
    inactive(1),
    notInUse(2),
    inUse(3),
    expiredInUse(4),
    expiredNotInUse(5),
    usageCountConsumed(6)
}
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION
  "This object represents status of the license.

  inactive(1)       - license is installed, but
                    not active.
notInUse(2)        - license is installed and
                    available for use.
inUse(3)           - the license is being used (by
                    a feature).
expiredInUse(4)    - license is expired but still
                    being held by the feature.
expiredNotInUse(5) - license is expired and not being
                    held by any feature.
usageCountConsumed(6) - number of entities using this
                    licenses has reached the allowed
                    limit, no new entities are allowed
                    to use this license."
::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE
SYNTAX          DateAndTime
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION
  "This object indicates the start date for a subscription
license. It is optional for subscription licenses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only
when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).
The object will contain an octet string of length 0 when it is
not applicable."
::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE
SYNTAX          DateAndTime
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION
  "This object indicates the end date for a subscription license.
This object is applicable only when clmgmtLicenseType is
paidSubscription(5), evaluationSubscription(6) or
extensionSubscription (7). The object will contain an octet
string of length 0 when it is not applicable."
::= { clmgmtLicenseInfoEntry 16 }
clmgmtLicensePeriodUsed OBJECT-TYPE
SYNTAX          Unsigned32
UNITS           "seconds"
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION
   "This object indicates the time period used for the
    Right to use (RTU) licenses. This object is applicable for all
    RTU licenses."
::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE
SYNTAX          SEQUENCE OF ClmgmtLicensableFeatureEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION
   "This table contains list of licensable features in the
    image. All the licensable features will have an entry each
    in this table irrespective of whether they are using any
    licenses currently. Entries in this table are created by
    the agent one for each licensable feature in the image.
    These entries remain in the table permanently and can not
    be deleted. Management application can not create or delete
    entries from this table."
::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE
SYNTAX          ClmgmtLicensableFeatureEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION
   "An entry in clmgmtLicensableFeatureTable. Each entry represents
    a licensable feature."
INDEX           {
    entPhysicalIndex,
    clmgmtFeatureIndex
}
::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {
    clmgmtFeatureIndex          Unsigned32,
    clmgmtFeatureName           SnmpAdminString,
    clmgmtFeatureVersion        SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted  SnmpAdminString,
clmgmtFeatureStartDate OBJECT-TYPE
SYNTAX DateAndTime
DESCRIPTION "This object indicates the start date of the licensable feature in the device."
::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureEndate OBJECT-TYPE
SYNTAX DateAndTime
DESCRIPTION "This object indicates the end date of the licensable feature in the device."
::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeaturePeriodUsed OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
DESCRIPTION "This object indicates the period used for the licensable feature in the device."
::= { clmgmtLicensableFeatureEntry 3 }

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.

<table>
<thead>
<tr>
<th>Command</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>noOp(1)</td>
<td>No operation will be performed.</td>
</tr>
<tr>
<td>getDeviceCredentials(2)</td>
<td>Exports device credentials</td>
</tr>
</tbody>
</table>

DEFVAL    { noOp }
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 9 }

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 10 }

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 }
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
}

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
}

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
}

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 is sent when a subscription 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 is sent when a subscription 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 }
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 }
"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
 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS
 {
  clmgmtLicenseUsageNotifEnable,
  clmgmtLicenseDeploymentNotifEnable,
  clmgmtLicenseErrorNotifEnable
 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS
 {
  clmgmtLicenseExpired,
  clmgmtLicenseExpiryWarning,
  clmgmtLicenseUsageCountExceeded,
  clmgmtLicenseUsageCountAboutToExceed
 }
Open Source Used In Crosswork Change Automation and Health Insights 4.1.0

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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
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 conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

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

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

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

REVISION "200710160000Z"
DESCRIPTION "Initial version of this MIB module."
::= { ciscoMgmt 640 }
BootImageLevel ::= TEXTUAL-CONVENTION
  STATUS          current
  DESCRIPTION
    "This textual convention is used to define
    the image level.

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

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

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

-- Table for executing license management actions.
cilmBootImageLevelTable OBJECT-TYPE
  SYNTAX          SEQUENCE OF CilmBootImageLevelEntry
  MAX-ACCESS      not-accessible
  STATUS          current
  DESCRIPTION
    "A table that contains the configuration information of
    current and next boot image level. This table contains
    entries for each software module running in an image
    loaded in the device. The software module is identified by
    cilmModuleName and the device is identified by
    entPhysicalIndex."
  ::= [ ciscoImageLicenseMgmtMIBObjects 1 ]

cilmBootImageLevelEntry OBJECT-TYPE
SYNTAX     CilmBootImageLevelEntry
MAX-ACCESS not-accessible
STATUS     current

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

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

INDEX     :
{ 
  entPhysicalIndex,
  cilmModuleName
}
::= { cilmBootImageLevelTable 1 }

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

cilmModuleName OBJECT-TYPE
SYNTAX     SnmpAdminString
MAX-ACCESS not-accessible
STATUS     current

DESCRIPTION
"This object is used as one of the two indices in
cilmBootImageLevelTable. This object indicates the module
name of the software package. There can be multiple
modules in an image performing specific functionality.
For example, in a wireless image there can be two modules
- a base image module and a wireless module."
::= { cilmBootImageLevelEntry 1 }

cilmCurrentImageLevel OBJECT-TYPE
SYNTAX     BootImageLevel
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the current image level that the module is running."
::= { cilmBootImageLevelEntry 2 }

cilmConfiguredBootImageLevel OBJECT-TYPE
SYNTAX BootImageLevel
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability."
::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE
SYNTAX BootImageLevel
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot image level is determined based on the availability of required license."
::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the license store index where the currently used license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."
::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image."
 ::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."
 ::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."
 ::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE
SYNTAX      SEQUENCE OF CilmImageLevelToLicenseMapEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."
::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE
SYNTAX CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in the table containing the following information.
- The image levels at which the modules can be run.
- The license required to run a module at a particular image level.
- The priority of the license."
INDEX [ { entPhysicalIndex,
cilmModuleName,
cilmImageLicenseMapIndex } ]
::= { cilmImageLevelToLicenseMapTable 1 }

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

cilmImageLicenseMapIndex OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This is a running index used to identify an entry of this table."
::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE
SYNTAX BootImageLevel
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the image level at which a module can be run. A module can be run at different image levels. An entry will be created in this table for every module and image level combination."

 ::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE
SYNTAX LicenseNameList
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."
 ::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE
SYNTAX Unsigned32 (1..255)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."
 ::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the
objects in the cilmBootImageLevelTable to configure
the license.”
DEFVAL  { false } ::= { ciscoImageLicenseMgmtMIBObjects 3 }
-- Notification control

cilmNotifCntl OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE
 SYNTAX          TruthValue
 MAX-ACCESS      read-write
 STATUS          current
 DESCRIPTION
 "Specify whether or not a notification should be
 generated on the detection of change in next boot
 image level.

 If set to TRUE, cilmBootImageLevelChanged notification
 will be generated. It is the responsibility of the
 management entity to ensure that the SNMP administrative
 model is configured in such a way as to allow the
 notification to be delivered."
REFERENCE
 "See also RFC3413 for explanation that notifications
 are under the ultimate control of the MIB module in
 this document.”
DEFVAL  { false } ::= { cilmNotifCntl 1 }

-- Notifications

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

cilmModuleCompliances OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 2 }

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

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

-- Units of Conformance

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

cilmOperGroup OBJECT-GROUP
OBJECTS {
    cilmImageLicenseImageLevel,
    cilmImageLicenseName,
    cilmImageLicensePriority
}
cilmNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { cilmBootImageLevelChanged }
STATUS current
DESCRIPTION
"Objects for getting current image level configuration data."
::= { cilmModuleGroups 3 }

END

1.27 protobuf 1.27.1

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1.30 tablewriter 0.0.4
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1.31 jinja2 2.11.3

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Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/LICENSE.rst

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

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

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

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

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

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

Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/PKG-INFO
```python
import io
import re
from setuptools import find_packages
from setuptools import setup

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

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

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
    ]
)```
1.32 d-bus 1.12.16-2ubuntu2.1

1.32.1 Available under license:

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

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

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1.47 pygobject 3.36.0-1

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1.58 inotify-tools 3.20.2.2-r0

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1.59 py4j 0.10.6

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1.74 tre 0.8.0

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1.75 x-sys 0.0.0-20191026070338-33540a1f6037

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1.76 paramiko 2.6.0

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1.81 urllib3 1.26.7

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1.83 popt 1.16-14

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Upstream-Name: popt
Upstream-Contact: Jeff Johnson <jbj@rpm5.org>
Source: http://rpm5.org/files/popt/
Comment:
popt was originally written by Erik Troan when he was with RedHat. It's now maintained as part of Fedora.

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1.84 idna 13.0.0

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1.85 go-sourcemap-sourcemap

2.1.3+incompatible

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1.86 google-uuid 1.1.5

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1.87 click 7.1.2

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# binary only, patch it back to the system, and then use a wrapper

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* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py
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import io
import re

from setuptools import find_packages
from setuptools import setup
as f:
    readme = f.read()

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

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
    ],
)

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* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py

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.. _contrib:

=============

click-contrib

=============

As the userbase of Click grows, more and more major feature requests pop up in
Click’s bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose feature set does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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1.88 lumberjack 2.0.0-20170531160350-a96e63847dc3

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1.89 linux-libc-dev 5.4.0-89.100

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url="http://search.cpan.org/dist/Software-License/
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cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
  cd "$builddir"
  export CFLAGS=perl -MConfig -E 'say $Config{ccflags}'
  PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$builddir"
  export CFLAGS=perl -MConfig -E 'say $Config{ccflags}'
  make & & make test
}
package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
  find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

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(pkgname=py-flake8-copyright
 _pkgname=flake8-copyright
 pkgver=0.2.0
 pkgrel=0
 pkgdesc="Extension for flake8 which checks for copyrights"
 url="https://github.com/savoirfairelinux/flake8-copyright"
 arch="noarch"
 license="MIT"
 depends="flake8"
 makedepends="python3-dev"
 source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
 builddir="$srcdir"/${_pkgname}-${pkgver}

build() {
 cd "Builddir"
 python3 setup.py build || return 1
}

package() {
 cd "Builddir"
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"

_builddir="$srcdir/libart_lgpl-$pkgver"

prepare() {
  cd "$_builddir"
  update_config_sub || return 1
}
build() {
  cd "$_builddir"
  ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr \
  || return 1
  make || return 1
}
package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
prepare() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$_pkgdir" install || return 1
    find "$_pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd08d049f6ff4af0f1f61957e289e8de45af5c79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eac5089e82081b7c51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276ccee2bd40a429fa430  BSD-Resource-1.2909.tar.gz"

mini_sendmail - accept email on behalf of real sendmail

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.106 gobject-introspection 1.64.1-1~ubuntu20.04.1

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1.107 pierrec-xxhash 0.0.0-20170714082455-a0006b13c722

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jseward@bzip.org
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1.114 python-chardet 3.0.4-4build1

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1.117 blang-semver 3.5.1+incompatible

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1.119 python-certifi 2019.11.28-1
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been to dedicate PyCrypto to the public domain, but that intention was
not necessarily made clear in the original disclaimer (see
LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own
licenses that differed from the PyCrypto license itself. For example,
the original RIPEMD.c module simply had a copyright statement and
warranty disclaimer, without clearly specifying any license terms.
(An updated version on the author's website came with a license that
contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have
been taken:

1. Obtaining explicit permission from the original contributors to
dedicate their contributions to the public domain if they have not
already done so. (See the "LEGAL/copy/stmts" directory for
contributors' statements.)

2. Replacing some modules with clearly-licensed code from other
sources (e.g. the DES and DES3 modules were replaced with new ones
based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the
RIPEMD and Blowfish modules were re-implemented from their
respective algorithm specifications without reference to the old
implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.121 apache-thrift 0.13.0

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Version 2.1, February 1999

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Protocol Buffers for Go with Gadgets

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1.125 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.126 myapp 0.1.0-0001

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1.141 pycparser 2.20

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1.142 influxdb v1.8.3

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1.144 python-requests 2.22.0 2ubuntu1
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1.145 junos-eznc 2.2.1

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Name: junos-eznc
Version: 2.2.1
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Home-page: http://www.github.com/Juniper/py-junos-eznc
Author: Jeremy Schulman, Nitin Kumar, Rick Sherman, Stacy Smith
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* /opt/cola/permits/1154776947_1618890097.62/0/junos-eznc-2-2-1-tar-gz/junos-eznc-2.2.1/lib/jnpr/junos/utils/config.py

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1.146 napalm 2.4.0

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1.147 prometheus-procfs 0.0.0-2017021623256-a1dba9ce8bae

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1.150 nghttp2 1.41.0-r0

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1.152 gax-go 2.0.5

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temp/libuv/_coreffi_source.c
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the user installs one, as long as the modified version is
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------------
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1.162 python-setuptools 45.2.0-1

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1.165 go-cache 2.1.0+incompatible

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1.170 google-go-cmp 0.5.4

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## 1.184 wtforms 2.2.1

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WTForms

======

WTForms is a flexible forms validation and rendering library for Python web development. It is `framework agnostic`_ and can work with whatever web framework and template engine you choose. There are various community libraries that provide closer integration with popular frameworks.

To get started using WTForms, we recommend reading the `crash course`_ in the docs.
Installation
------------

Install and update using pip:

    pip install -U WTForms

Third-Party Library Integrations
--------------------------------

WTForms is designed to work with any web framework and template engine. There are a number of community-provided libraries that make integrating with frameworks even better.

- `Flask-WTF` integrates with the Flask framework. It can automatically load data from the request, uses Flask-Babel to translate based on user-selected locale, provides full-application CSRF, and more.
- `WTForms-Alchemy` provides rich support for generating forms from SQLAlchemy models, including an expanded set of fields and validators.
- `WTForms-SQLAlchemy` provides ORM-backed fields and form generation from SQLAlchemy models.
- `WTForms-AppEngine` provides ORM-backed fields and form generation from AppEngine db/ndb schema
- `WTForms-AppEngine` provides ORM-backed fields and form generation from Django models, as well as integration with Django's I18N support.

Links
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- Documentation: https://wtforms.readthedocs.io/
- License: ` BSD <https://github.com/wtforms/wtforms/blob/master/LICENSE>`_
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Found in path(s):
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import io
import re
import sys
from setuptools import setup
with io.open('README.rst', 'rt', encoding='utf8') as f:
readme = f.read()
with io.open('wtforms/__init__.py', 'rt', encoding='utf8') as f:
version = re.search(r'__version__ = \'(.*?)\'', f.read()).group(1)
extra = {}
if sys.version_info < (2, 7):
extra['install_requires'] = ['ordereddict>=1.1']
setup(
name='WTForms',
version=version,
url='https://wtforms.readthedocs.io/',
project_urls={
'Documentation': 'https://wtforms.readthedocs.io/',
'Code': 'https://github.com/wtforms/wtforms',
'Issue tracker': 'https://github.com/wtforms/wtforms/issues',
},
license='BSD',
author='Thomas Johansson, James Crasta',
author_email='wtforms@simplecodes.com',
maintainer='WTForms team',
maintainer_email='davidism@gmail.com',
description=(
'A flexible forms validation and rendering library for Python'
' web development.'
),
long_description=readme,

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WTForms is a flexible forms validation and rendering library for Python web.
from wtforms import validators, widgets
from wtforms.fields import *
from wtforms.form import Form
from wtforms.validators import ValidationError

__version__ = '2.2.1'

Found in path(s):
* /opt/cola/permits/1162735404_1620900685.8/0/wtforms-wtforms-2-2-1-0-g7152845-1-tar-gz/wtforms-wtforms-7152845/wtforms/__init__.py
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1.190 grafana-grafana-plugin-model 0.0.0-20190930120109-1fc953a61fb4

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c

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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

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

crontab -u uucp -r /usr/lib/uucp/crontab.src

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

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

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

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

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

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

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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   */
   */
/* $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp */
Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1
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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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* @(#)bitstring.h5.2 (Berkeley) 4/4/90
*/

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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)
killed 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.local to use it instead of the old one.

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

1.192 go-resiliency 1.2.0
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1.195 zlib 1.2.11

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version 1.2.11, January 15th, 2017

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1.196 hi-plugins 4.1.0.0

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1.205 python-six 1.14.0-2

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1.206 werkzeug 0.16.0

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1.207 urllib3 1.25.9

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# Contributions to the urllib3 project

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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/@WBR5R18ZDhBFXQB6/>
  * 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=0.
  * 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 backend that supports PEP 475.

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

* Moinuddin Quadri <moinl8@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 vending

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

---

1.208 ansible 2.10.0

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

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

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1.209 importlib-metadata 3.7.3

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1.210 certifi 2020.12.5

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

cbalex.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:
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 $

1.211 pax-utils 1.2.6-r1

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1.212 urfave-cli 2.3.0

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1.213 go-runtime 1.12.1

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Sometimes you just want to send some data to untrusted environments. But how to do this safely? The trick involves signing. Given a key only you know, you can cryptographically sign your data and hand it over to someone else. When you get the data back you can easily ensure that nobody tampered with it.

Granted, the receiver can decode the contents and look into the package, but they can not modify the contents unless they also have your secret key. So if you keep the key secret and complex, you will be fine.

Internally itsdangerous uses HMAC and SHA-512 for signing by default. The initial implementation was inspired by Django's signing module. It also supports JSON Web Signatures (JWS). The library is BSD licensed.

Installing
----------

Install and update using `pip`:

```
pip install -U itsdangerous
```

Example Use Cases
- You can serialize and sign a user ID in a URL and email it to them to unsubscribe from a newsletter. This way you don't need to generate one-time tokens and store them in the database. Same thing with any kind of activation link for accounts and similar things.
- Signed objects can be stored in cookies or other untrusted sources which means you don't need to have sessions stored on the server, which reduces the number of necessary database queries.
- Signed information can safely do a roundtrip between server and client in general which makes them useful for passing server-side state to a client and then back.

Table of Contents

.. toctree::

   signer
   serializer
   exceptions
   timed
   url_safe
   jws
   encoding
   license
   changes

Found in path(s):
* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/docs/index.rst

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----

The initial implementation of itsdangerous was inspired by Django's signing module.

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* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/LICENSE.rst
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import io
import re
from setuptools import find_packages
from setuptools import setup

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

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

setup(
    name="itsdangerous",
    version=version,
    url="https://palletsprojects.com/p/itsdangerous/",
    project_urls={
        "Documentation": "https://itsdangerous.palletsprojects.com/",
        "Code": "https://github.com/pallets/itsdangerous",
        "Issue tracker": "https://github.com/pallets/itsdangerous/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Various helpers to pass data to untrusted environments and back.",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.4",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
    ],
)

Found in path(s):
* /opt/cola/permits/1160881332_1620412835.08/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-
1.218 rpm 4.15.1-r2

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Metadata-Version: 1.1
Name: protobuf3-to-dict
Version: 0.1.5
Summary: Ben Hodgson: A teeny Python library for creating Python dicts from protocol buffers and the reverse. Useful as an intermediate step before serialisation (e.g. to JSON). Kapor: upgrade it to PB3 and PY3, rename it to protobuf3-to-dict
Home-page: https://github.com/kaporzhu/protobuf-to-dict
Author: Kapor Zhu
Author-email: kapor.zhu@gmail.com
License: Public Domain
Description: UNKNOWN
Keywords: protobuf, json, dict
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: Public Domain
Classifier: Operating System :: OS Independent
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1154776889_1618890096.15/0/protobuf3-to-dict-0-1-5-tar-gz/protobuf3-to-dict-0.1.5/PKG-INFO
* /opt/cola/permits/1154776889_1618890096.15/0/protobuf3-to-dict-0-1-5-tar-gz/protobuf3-to-dict-0.1.5/src/protobuf3_to_dict.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1154776889_1618890096.15/0/protobuf3-to-dict-0-1-5-tar-gz/protobuf3-to-dict-0.1.5/setup.py
1.227 influxdb 1.3.8

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

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

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

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

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

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

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

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

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

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

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Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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   (For 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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THE BASIC LIBRARY FUNCTIONS

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ASN.1 library for Python
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
Why using pyasn1

-------------

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

--------------

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType('room', Integer().subtype(
```

* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
```
id is 123
room is 321
house is 0

>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).
How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md
No license file was found, but licenses were detected in source scan.

ASN.1 library for Python

Abstract Syntax Notation One (`ASN.1` <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.
Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>` or `FlatBuffers <https://google.github.io/flatbuffers/>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

----------------
Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
--------------

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

   /example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

   /download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

   /changelog

License
-------
The PyASN1 software is distributed under 2-clause BSD License.

.. toctree::
   :maxdepth: 2

/license

Getting help
------------

Alternatively, you could ask for help at `Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search `pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_ mailing list archive.

Books on ASN.1
--------------
The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0.4.4-1.tar.gz/pyasn1-0.4.4/docs/source/contents.rst`
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<signature of Ty Coon>, 1 April 1990
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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/

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

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

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

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

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

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

say:
make all

su and say:
make install

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

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.
Use the `crontab` command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-
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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

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

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutey '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)
kil 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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$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $

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* /

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  3.0pl1.orig/compat.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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 */

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1.248 enum34 1.1.3

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnr.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.

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c-a-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:
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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1.252 alpine-keys 2.2-r0

1.253 prometheus-procfs 0.0.11

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1.257 pyrsistent 0.18.0

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1.262 opentracing-go 1.2.0

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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.271 logrus 1.6.0

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1.272 sqlx 0.0.0-20171020205521-3379e5993990

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1.273 golang-snappy 0.0.3

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1.274 nss 3.57-r0

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1.278 libpython3-dev 3.8.2-0ubuntu2

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@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 Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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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.

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WxWindows-exception-3.1
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gnu-javamail-exception
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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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<tr>
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1.288 dbus-python 1.2.16-1build1

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1.291 ncurses 6.2_p20200523-r0

1.291.1 Available under license:

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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.292 sqlx 0.0.0-20190426154859-38398a30ed85

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1.293 gsettings-desktop-schemas 3.36.0-1ubuntu1

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1.305 x-net 0.0.0-20210503060351-7fd8e65b6420

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

return nil
}

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

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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
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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# PLY (Python Lex-Yacc) Version 3.11


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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:

```python
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:

```python
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"

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

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

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

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

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

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

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

-- Dave

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1.344 python 3.7.9

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

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

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

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

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1.357 Idap 2.6.1

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.359 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.362 log-rotate 3.14.0-4ubuntu3

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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.)*
(//|#) Use of this source code is governed by a BSD-style
(//|#) 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)
  }
}

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1.365 opentracing-contrib-go-grpc 0.0.0-20180928155321-4b5a12d3ff02

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1.373 gojsondiff 1.0.0

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1.377 sergi-go-diff 1.0.0

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* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/README.rst

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  1.4.3/jsonpath_ng/bin/jsonpath.py

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Metadata-Version: 1.1
Name: jsonpath-ng
Version: 1.4.3
Summary: A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic 
and binary comparison operators and providing clear AST for metaprogramming.
Home-page: https://github.com/h2non/jsonpath-ng
Author: Tomas Aparicio
Author-email: tomas@aparicio.me
License: Apache 2.0
Description: Python JSONPath Next-Generation [Build Status] [PyPI] [Coverage Status]
=======================================================================
A final implementation of JSONPath for Python that aims to be standard compliant, including arithmetic 
and binary comparison operators, as defined in the original `JSONPath proposal`.

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

About
-----

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

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

Quick Start
----------

To install, use pip:

.. code:: bash

    $ pip install --upgrade jsonpath-ng

Usage
-----

Basic examples:

.. code:: python

    $ python

    >>> from jsonpath_ng import jsonpath, parse

    # A robust parser, not just a regex. (Makes powerful extensions possible; see below)
    >>> jsonpath_expr = parse('foo[*].baz')

    # Extracting values is easy
    >>> [match.value for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]} )]
    [1, 2]

    # Matches remember where they came from
    >>> [str(match.full_path) for match in jsonpath_expr.find({'foo': [{'baz': 1}, {'baz': 2}]} )]
    ['foo[0].baz', 'foo[1].baz']

    # And this can be useful for automatically providing ids for bits of data that do not have them (currently a global switch)
    >>> jsonpath.auto_id_field = 'id'
>>> [match.value for match in parse('foo[*].id').find({'foo': [{'id': 'bizzle'}, {'baz': 3}])]
['foo.bizzle', 'foo.[1]']

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

# You can also build expressions directly quite easily
>>> from jsonpath_ng.jsonpath import Fields
>>> from jsonpath_ng.jsonpath import Slice

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

Using the extended parser:

.. code:: python

$ python

>>> from jsonpath_ng.ext import parse

# A robust parser, not just a regex. (Makes powerful extensions possible; see below)
>>> jsonpath_expr = parse('foo[*].baz')

JSONPath Syntax
------------------

The JSONPath syntax supported by this library includes some additional features and omits some problematic features (those that make it unportable). In particular, some new operators such as `|` and `where` are available, and parentheses are used for grouping not for callbacks into Python, since with these changes the language is not trivially associative. Also, fields may be quoted whether or not they are contained in brackets.

Atomic expressions:

+---------------------------------+---------------------------------------------------------------------------------------------+
| Syntax                          | Meaning                                                                                     |
+=================================+=============================================================================================+
| ``$``                           | The root object                                                                             |
+---------------------------------+---------------------------------------------------------------------------------------------+
| ```this```                      | The "current" object.                                                                       |
+---------------------------------+---------------------------------------------------------------------------------------------+
More generally, this syntax allows "named operators" to extend JSONPath is arbitrary ways.

Field specifiers (*field*):

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;fieldname&quot;</td>
<td>the field &quot;fieldname&quot; (from the &quot;current&quot; object)</td>
</tr>
<tr>
<td>&quot;&quot;fieldname&quot;&quot;</td>
<td>same as above, for allowing special characters in the fieldname</td>
</tr>
<tr>
<td>&quot;&quot;fieldname&quot;&quot;</td>
<td>ditto</td>
</tr>
<tr>
<td>&quot;*&quot;</td>
<td>any field</td>
</tr>
<tr>
<td>&quot;&quot;*&quot; <em>field</em></td>
<td>either of the named fields (you can always build equivalent jsonpath using &quot;&quot;)</td>
</tr>
</tbody>
</table>
Array specifiers (*idx*):

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>\[\ </code>n<code>\]</code></td>
<td>array index (may be comma-separated list)</td>
</tr>
<tr>
<td><code>\[\ </code>n<code>\]</code></td>
<td>array slicing (note that <em>step</em> is unimplemented only due to lack of need thus far)</td>
</tr>
<tr>
<td><code>\[*\]</code></td>
<td>any array index</td>
</tr>
</tbody>
</table>

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

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

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

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

About arithmetic and string

-------------

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

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

Example with data::

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

| **cow + fish** returns **cowfish** |
| **$.cow + $.fish** returns **foobar** |
| **$.cow + "." + $.fish** returns **foo_bar** |
| **$.cow + "." + fish** returns **foo_fish** |

About arithmetic and list
------------------------Arithmetic can be used against two lists if they have the same size.
Example with data::
{'objects': [
{'cow': 2, 'cat': 3},
{'cow': 4, 'cat': 6}
]}
| **$.objects[\*].cow + $.objects[\*].cat** returns **[6, 9]**
More to explore
--------------There are way too many JSONPath implementations out there to discuss.
Some are robust, some are toy projects that still work fine, some are
exercises. There will undoubtedly be many more. This one is made for use
in released, maintained code, and in particular for programmatic access
to the abstract syntax and extension. But JSONPath at its simplest just
isn't that complicated, so you can probably use any of them
successfully. Why not this one?
The original proposal, as far as I know:
- `JSONPath - XPath for
JSON <http://goessner.net/articles/JSONPath/>`__ by Stefan Goessner.
Other examples
-------------Loading json data from file
.. code:: python
import json
d = json.loads('{"foo": [{"baz": 1}, {"baz": 2}]}')
# or
with open('myfile.json') as f:
d = json.load(f)
Special note about PLY and docstrings
------------------------------------The main parsing toolkit underlying this library,
`PLY <https://github.com/dabeaz/ply>`__, does not work with docstrings
removed. For example, ``PYTHONOPTIMIZE=2`` and ``python -OO`` will both

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cause a failure.

Contributors
------------

This package is authored and maintained by:

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

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

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.. _`JSONPath proposal`: http://goessner.net/articles/JsonPath/
.. _`jsonpath-rw`: https://github.com/kennknowles/python-jsonpath-ng
.. _`jsonpath-rw-ext`: https://pypi.python.org/pypi/jsonpath-rw-ext/

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   :target: https://travis-ci.org/h2non/jsonpath-ng

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   :target: https://pypi.python.org/pypi/jsonpath-ng

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.. [Documentation Status] image:: https://img.shields.io/badge/docs-latest-green.svg?style=flat
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Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6

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* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/ext/__init__.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/ext/iterable.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/ext/filter.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/ext/arithmetic.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/arithmetick.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/string.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/tests/test_jsonpath_rw_ext.py
* /opt/cola/permits/1154776936_1618890066.76/0/jsonpath-ng-1-4-3-1-tar-gz/jsonpath-ng-1.4.3/jsonpath_ng/ext/parser.py

1.379 zlib 1.2.8
1.379.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.380 prometheus-common 0.0.0-20170220103846-49fee292b27b

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1.381 go-redis-redis 5.2.9

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1.382 toml 0.3.1

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1.383 testify 1.7.0

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1.384 google-flatbuffers 1.11.0

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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
}

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limitations under the License.
// List of features enabled by the license
Features []string `json:"features"

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

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.setRequestOptions(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 built-in one if it is still valid.
// If the built-in 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.setRequestOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
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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tomb - support for clean goroutine termination in Go.

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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
}

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 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,omitspace"
XMLName xml.Name  `xml:"LegalHold"
Status   LegalHoldStatus `xml:"Status,omitspace"
}

// 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 != "" {
}

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.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        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 != "" {
    }
    // 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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prooffs provides functions to retrieve system, kernel and process
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1.397 gstreamer 1.16.2-2

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

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

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1.398 pyasn1 0.4.8
1.398.1 Available under license:
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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ASN.1 library for Python

-------------
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

-------------
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
def Record(SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
})
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        ),
    )
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
``` Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).
You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py
ASN.1 library for Python

========================

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (ASN.1) <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a

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technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_, or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1> on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

   /changelog

License
-------

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Getting help
------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst`

**1.399 go-runewidth 0.0.9**

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

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

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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
    }
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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 */

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 {

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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
    }

    if 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)),
    }

    // Get resources properly escaped and lined up before using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if 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)),
    }
// Execute PUT Object Legal Hold.
deferr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        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 != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
deferr 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
}
1.408 go.uber.org/atomi 1.7.0

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1.409 go-mssqlldb 0.0.0-20200910202707-1e08a3fab204

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1.410 libffi 3.3-r2

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1.415 pycparser 2.19
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pycparser -- A C parser in Python

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1.424 rcrowley-go-metrics 0.0.0-20161128210544-1f30fe9094a5

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1.426 mattetti-filebuffer 1.0.1

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1.427 pythonurllib 1.25.8 2ubuntu0.1

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSlbZDhBFXQ86/>
  * 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 `urlib2.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`. 
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1.428 python3-certifi 2019.11.28-1
1.428.1 Available under license:

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

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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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1.430 pip 3.9.1-6.ph4

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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

Open Source Used In Crosswork Change Automation and Health Insights 4.1.0 3465
the various releases that included the contextlib module.

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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cia-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:
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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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $ Copyright (c) 2006-2013 James Graham and other contributors

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1.436 x-crypto 0.0.0-20201221181555-eec23a3978ad

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1.437 ca-certificates 20191127-r4

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1.440 nats v1.4.1

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Metadata-Version: 1.2
Name: idna
Version: 2.8
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.
This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

```
# Python 3
>>> import idna
>>> idna.encode('.
 .

# Python 2
>>> import idna
>>> idna.encode(u'.
 .

```

**Packages**

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
 :target: http://badge.fury.io/py/idna
```

**Installation**

To install this library, you can use pip:

```
.. code-block:: bash

    $ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash

    $ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.
Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```pycon
# Python 3
>>> import idna
>>> idna.encode('.')
'b\xe9ckwd4c7c.xn--zckzh'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzh'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```pycon
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```pycon
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

```python
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')

... idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
'b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```python
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility

+++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions

--------
All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNADiError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXT or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing

--------
The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, "Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>".

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1185203924_1627684722.95/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
* /opt/cola/permits/1185203924_1627684722.95/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/PKG-INFO

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```python
import io, sys
from setuptools import setup
def main():
    python_version = sys.version_info[:2]
```
if python_version < (2,7):
    raise SystemExit("Sorry, Python 2.7 or newer required")

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

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

setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/cola/permits/1185203924_1627684722.95/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py
1.447 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] -&gt; 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:

```ruby
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 environment, and use per-event blocks to call DJ or Resque
enqueue methods. For example, with DJ/Rails:

```ruby
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:

```ruby
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-scheduler)

Design assistance from Peter van Hardenberg and Matthew Soldo
Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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1.448 go.uber.org/atomi 1.4.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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1.463 ncclient 0.6.6

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1.464 kerberos 1.17-6ubuntu4.1

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1.466 go-yaml 2.2.8

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1.472 go-colorable 0.1.8

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1.473 idna 2.10

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

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")
```
package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
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        'License :: OSI Approved :: BSD License',
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        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py
1.474 hashicorp-go-version 1.2.1

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Protocol Buffers for Go with Gadgets

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

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1.476 argon2 0~20171227 0.2

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Protocol Buffers for Go with Gadgets

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1.485 logrus 1.7.0

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1.486 profile 1.2.1

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1.488 golang-snappy 0.0.2

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1.489 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe
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1.490 certifi 2019.11.28

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1.491 pysftp 0.2.8

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1.492 gogoprotobuf 1.3.2
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Protocol Buffers for Go with Gadgets

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

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1.493 certifi 2019.6.16

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can be directly used with curl / libcurl / php_curl, or with
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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $
1.494 trylock 0.0.0-20191027065348-ff7e133a5c54

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

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1.496 glib-networking 2.64.2-1build1

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1.504 c-ares 1.16.1

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License Mixing
==============

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libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

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particular problem was addressed when the [Modified BSD
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1.507 pyeapi 0.8.4

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cia-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:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.509 systemd 245.4-4ubuntu3.13

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# update-license

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

## Installation

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

## Usage

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

## Further Work
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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match.go, match_test.go:

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

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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Configurable modular Prometheus exporter for various node metrics.
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1.514 libjson-c4 0.13.1+dfsg-7ubuntu0.3

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1.515 kerberos 1.18.2-r0

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mec/h/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mec/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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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.c
  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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1.517 python-idna 2.8-1

1.517.1 Available under license:

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

import io, sys
from setuptools import setup

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': ['Development Status :: 5 - Production/Stable',
                        'Intended Audience :: Developers',
                        'Intended Audience :: System Administrators',
                        'License :: OSI Approved :: BSD License',
                        'Operating System :: OS Independent',
                        'Programming Language :: Python',
                        'Programming Language :: Python :: 2',
                        'Programming Language :: Python :: 2.7',
                        'Programming Language :: Python :: 3',
                        'Programming Language :: Python :: 3.4',
                        'Programming Language :: Python :: 3.5',
                        'Programming Language :: Python :: 3.6']

    setup(**arguments)
Found in path(s):
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py

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

Metadata-Version: 1.2
Name: idna
Version: 2.8
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(‘.’)
The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

   # Python 3
   >>> import idna
>>> idna.encode('.
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
 .

You may use the codec encoding and decoding methods using the
``idna.codec`` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codec
    >>> print u'.'.encode('idna')
    xn--80ah1agd.xn--80akhbyknj4f
    >>> print 'xn--80ah1agd.xn--80akhbyknj4f'.decode('idna')

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel``
functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA
specification no longer normalizes input from different potential ways a user
may input a domain name. This functionality, known as a “mapping”, is now
considered by the specification to be a local user-interface issue distinct
from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_,
it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL
LETTER K* is not allowed (nor are capital letters in general). UTS 46 will
convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

    # Python 3
    >>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
kö nigsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility

+++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions

--------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTI but the contextual requirements are not satisfied.)

Building and Diagnostics
The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <http://iana.org/>`

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.png?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
1.518 jemalloc 5.2.1-0-gea6b3e973b477b8061e0076bb257dbd

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1.519 asyncio-nats-client 0.9.2

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```

Found in path(s):
* /opt/cola/permits/1154776895_1618890070.84/0/asyncio-nats-client-0.9.2/nats/aio/__init__.py
* /opt/cola/permits/1154776895_1618890070.84/0/asyncio-nats-client-0.9.2/nats/__init__.py
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Metadata-Version: 2.1
Name: asyncio-nats-client
Version: 0.9.2
Summary: NATS client for Python Asyncio
Home-page: https://github.com/nats-io/nats.py
Author: Waldemar Quevedo
Author-email: wally@synadia.com
License: Apache 2 License
Description: Asyncio based Python client for NATS, a lightweight, high-performance cloud native messaging system
Platform: UNKNOWN
1.520 python3.8-dev 3.8.10-0ubuntu1~20.04

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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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2.1.2  2.1.1     2002   PSF   yes
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

image:$BSD_LIB

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
+++ tdbsa/tdb.c
Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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<one line to give the program's name and a brief idea of what it does.>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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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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1.523 go-socket-io 0.0.0-20170525141029-5447e71f36d3

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1.524 libcap-ng 0.7.10-r1

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1.525 libdevmapper 1.02.167-1ubuntu1
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imclude/bsd/md5.h
src/hash/md5.c
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1.537 robot-robot-api 0.0.0-20211021002214-c8d6cb345f54
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// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto
package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

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

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

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means 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, 0x88, 0x09, 0x0f, 0xff, 0x06, 0x01, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0xa4, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9, 0xb6, 0xa0, 0x0f, 0x2f, 0x6d, 0x7e, 0x0e, 0x7f, 0xc7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f, 0x28, 0xf6, 0xe8, 0x81, 0x09, 0x0d, 0x0f, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x04, 0x48, 0x58, 0x09, 0xe2, 0xbc, 0x50, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0x0d, 0x09, 0x15, 0x02, 0x09, 0x22, 0x87, 0x21, 0x97, 0x9c, 0x0d, 0x8d, 0xe7, 0x1d, 0xc5, 0x7d, 0x42, 0x0b, 0x6c, 0x42, 0xc5, 0x59, 0x5f, 0x77, 0x93, 0x9c, 0x12, 0x6f, 0xe3, 0x0a, 0x4d, 0x0a, 0x5f, 0x28, 0xf6, 0x7b, 0x0a, 0x4d, 0x9f, 0xb3, 0xf6, 0x9f, 0x0c, 0xe0, 0x70, 0x0e0, 0x32, 0x20, 0x4f, 0xe8, 0x91, 0x0a, 0xc9, 0xe7, 0xd0, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xa6, 0xb2, 0xe8, 0xe8, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xe7, 0x0f, 0xb1, 0x41, 0x8f, 0xe8, 0xe6a, 0xe8, 0xe5, 0xe5, 0xe0, 0xe2, 0xe6, 0xe9, 0xe0, 0xe1, 0xc7, 0xe0, 0xe0, 0xff, 0xef, 0xe7, 0xe2, 0xe6, 0xc2, 0xe1, 0x01, 0x00, 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,omitenopy"`
  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.ComapctTextString(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)
```go
var fileDescriptor_cw_ztp_license_f6745968de738545 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0xc8, 0xf8, 0x01, 0xbd, 0x84, 0x4c, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xf7, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
    0xfb, 0xe5, 0x81, 0xfd, 0x2a, 0x06, 0xa9, 0x87, 0x38, 0x39, 0x0f, 0x0a, 0x90, 0xe5, 0x8b,
    0x04, 0x8c, 0x03, 0x47, 0x42, 0x81, 0x08, 0x01, 0x00,
    // Code generated by protoc-gen-go. DO NOT EDIT.
    // source: cw_ztp_license_device_v2.proto

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

    import proto "github.com/google/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_1c5de79621eeca399)
}

var fileDescriptor_cw_ztp_license_device_v2_1c5de79621eeca399 = []byte{
// 219 bytes of a gzipped FileDescriptorProto
0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4b, 0x4b, 0xc3, 0x40, 0x10, 0x47, 0x89, 0x15, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0x4f, 0x62, 0x16, 0xdb, 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x46, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99, 0x65, 0xff, 0xa4, 0x80, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0x8d, 0x0d, 0x3f, 0x3e, 0xc3, 0x34, 0x1e, 0x3b, 0x10, 0x20, 0x8f, 0x1d, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xda, 0x75, 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0xe6, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0x17, 0xd1, 0xbd, 0x9e, 0xb8, 0x7e, 0x8c, 0x7d, 0x4c, 0x39, 0x67, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35, 0x6f, 0xf3, 0xdc, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xb3, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d, 0x66, 0xb9, 0x79, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0x4f, 0xa5, 0x2b, 0x67, 0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0x8a, 0x3d, 0x69, 0x8a, 0xa7, 0xa0, 0xfa, 0xdc, 0x33, 0x3f, 0x7d, 0x5e, 0xf6, 0xe6, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec, 0x31, 0x7e, 0x25, 0xbd, 0x9f, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f, 0xca, 0xa1, 0xe8, 0x9c, 0xaa, 0xb1, 0x17, 0x67, 0xf9, 0x9e, 0xc9, 0x7e, 0xc3, 0x77, 0x00, 0x00, 0x00, 0xff, 0xff, 0x66, 0x8d, 0x49, 0x0b, 0x12, 0x01, 0x00, 0x00,
}

1.538 go-isatty 0.0.12

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1.539 glib 2.64.6-1~ubuntu20.04.4

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1.542 iputils 20190709-r0

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1.543 nspr 4.27-r0

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1.546 zlib 1.2.11 r3

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1.547 libcrypt-dev 4.4.10-10ubuntu4
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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

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

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

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**1.564 sarama 1.22.1**

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The End

1.571 xorm 0.8.1

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1.573 dconf-gsettings-backend 0.36.0-1

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1.577 bzip2 1.0.8-r1

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*
*
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/completion_queue.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/support/time.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/security/server_credentials.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/server_initializer.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/codegen/security/auth_context.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/codegen/core_codegen.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/codegen/security/config.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/codegen/sync_stream.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/codegen/callback_common.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc++/impl/codegen/client_interceptor.h
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/reflection_internal.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/unittest_enormousDescriptor.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/extension_set_heavy.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/arenastring.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map_field.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map_field_test.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/util/internal/testdata/struct.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/command_line_interface.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/controller.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/statusor_test.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/protobuf/protosupport_impl.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/protobuf/compiler/cpp_compiler.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/cpp/protobuf/compiler/cpp_compiler.cc
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_file.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/parser.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/any_test.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/map_test_util_impl.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /opt/cola/permits/1222770154_1635764364.44/0/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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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
* /opt/cola/permits/1222770154_1635764364.44/0/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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*/

/** 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):
* /opt/cola/permits/1222770154_1635764364.44/0/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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/* "grpc_tools/_protoc_compiler.pyx":1
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1.41.1/grpc_root/src/compiler/cpp_plugin.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/validate_service_config.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/cronet_credentials.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/config_protobuf.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/opencensus.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/sync.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/alts_context.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/security/alts_util.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/support/message_allocator.h

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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_root/include/grpc/event_engine/port.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_root/include/grpcpp/security/authorization_policy_provider.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_root/include/grpc/event_engine/event_engine.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_root/include/grpc/event_engine/endpoint_config.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_tools/test/simpler.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_tools/test/simpler.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_tools/test/simple.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_tools/test/complicated.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_tools/test/flawed.proto
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-grpc_tools/main.cc

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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

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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 `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

$ pip.exe install grpcio-tools

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source

Building from source requires that you have the Python headers (usually a package named `python-dev`) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

::

$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ./make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

***... see a** `pkg_resources.VersionConflict` ***when I try to install grpc**

This is likely because `pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

```
::
Traceback (most recent call last):
  File "<string>", line 17, in <module>
... File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find raise VersionConflict(dist, req) pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

You can fix it by doing:

```
::

  sudo pip install --ignore-installed six

***... see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

```
::

  /tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory


```
#include "Python.h"
   ^

compilation terminated.

You can fix it by installing `python-dev` package. i.e

```
::

    sudo apt-get install python-dev
```

If you see something similar to:

```
::

    static const Type kPosMax = SIGNED_INT_MAX(Type);
    ^

    ^

    And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the `-fwrapv` flag is specified. You should consider setting your
environment with `-fno-wrapv` or using clang (`CC=clang`).

Usage
-----

Given protobuf include directories `$INCLUDE`, an output directory
`$OUTPUT`, and proto files `PROTO_FILES`, invoke as:

```
::

    $ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT
    $PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided
command class in your `setup.py`:

```
::

    setuptools.setup(
       # ...
       cmdclass={
           'build_proto_modules': grpc.tools.command.BuildPackageProtos,
       }
       # ...
    )
```
Invocation of the command will walk the project tree and transpile every
: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):
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/PKG-INFO
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpcio_tools.egginfo/PKG-INFO
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1.tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/mutex.h
* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1.tar-gz/grpcio-tools-1.41.1/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc

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  */opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/ruby_generator_string-inl.h
  */opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/create_channel.h
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/generator_helpers.h
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/csharp_generator.h
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1-41-1-tar-gz/grpcio-tools-1.41.1/grpc_root/src/compiler/python_plugin.cc
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
* /opt/cola/permits/1222770154_1635764364.44/0/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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/ /opt/cola/permits/1222770154\_1635764364\.44\/0\/grpcio\-tools\-1\-41\-1\-tar\-gz\/grpcio\-tools\-1\-41\-1\/grpc\_tools\/__init__.py
/ /opt/cola/permits/1222770154\_1635764364\.44\/0\/grpcio\-tools\-1\-41\-1\-tar\-gz\/grpcio\-tools\-1\-41\-1\/grpc\_tools\protoc.py
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/support/error_details.h
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* /opt/cola/permits/1222770154_1635764364.44/0/grpcio-tools-1.41.1-tar-gz/grpcio-tools-1.41.1/grpc_root/include/grpc/load_reporting.h
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1.582 go-xerial-snappy 0.0.0-20160609142408-bb955e01b934

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Manifest-Version: 1.0
Bnd-LastModified: 1611588326488
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression library
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
1.583 mattermost-xml-roundtrip-validator
0.0.0-20201213122252-bcd7e1b9601e

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1.584 lz4 1.9.2-r0

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1.589 berkeley-db 5.3.28-r1

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1.590 snowball-stemmer 0+svn585-2

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1.591 apk-tools 2.10.5-r2

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1.592 kmod 27-1ubuntu2

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1.603 dbus-python 1.2.16

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