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type 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
        } else if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        } else if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        } else {
            src, err := ioutil.ReadFile(path)
            if err != nil {
                return nil
            }
            src = src[:300] // Ensure all of the sentinel values are at the top of the file.
            // Find license
            for _, sentinel := range sentinels {
                if !bytes.Contains(src, []byte(sentinel)) {
                    t.Errorf("%v: license header not present. want %q", path, sentinel)
                }
            }
        }
        return nil
    })
}
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1.13 trylock 0.0.0-20191027065348-ff7e133a5c54

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1.15 gopkg.in-asn1-ber 1.0.0-
20181015200546-f715ec2f112d

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1.28 python-setuptools 56.0.0

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1.29 libunistring 0.9.10-r1

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

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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<td>yes</td>
</tr>
</tbody>
</table>

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import (
    dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
    Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}
func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
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1.44 gopkg.in-yaml 2.3.0

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1.53 sarama 1.22.1

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1.54 x-crypto 0.0.0-20201221181555-eec23a3978ad

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1.55 x-text 0.3.6

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

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# update-license

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

```bash
## Installation
```

```bash
```
go get go.uber.org/tools/update-license
```
## Usage
```
update-license go_files...
```
## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbose, dry run support

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

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

return string(data), nil

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

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

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

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

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

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

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

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

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

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

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

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

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ">
    if opts.VersionID != "" {
    }
    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.
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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package spec

import {
    "encoding/json"
    "github.com/go-openapi/swag"
}

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

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

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

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}
1.79 color 1.10.0

1.79.1 Available under license:

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1.80 golang-snappy 0.0.3

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1.81 pierrec-lz4 2.0.5+incompatible

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1.82 gojsondiff 1.0.0
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## cli.go - https://github.com/urfave/cli

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## ginkgo - https://github.com/onsi/ginkgo

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1.83 py3-distlib 0.3.1-r3

1.83.1 Available under license:

A. HISTORY OF THE SOFTWARE

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

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

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

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

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

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

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

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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

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

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* 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
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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofoi.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
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* Boris Figovsky <boris.figovsky@ravelosystems.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

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  * 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 vendorin

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
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with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
version = re.search(r"__version__ = "(.*)"", f.read(), re.M).group(1)
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

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

It includes:

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

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

Installing

--------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell

--------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
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
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Classifier: Programming Language :: Python :: Implementation :: CPython
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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

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1.91 ldns 1.7.1-r1

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1.93 idna 3.2

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20181016184325-3113b8401b8a

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* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/XhrTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/Session.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/JsonCodec.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/EventBusBridgeHook.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/EventBusBridge.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/RawWebSocketTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/TransportListener.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/JsonPTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/BaseTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/HtmlFileTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/SockJSServerImpl.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/SockJSSocketBase.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/SockJSSocket.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/Transport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/io/vertx/ext/sockjs/impl/EventSourceTransport.java

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1.104 py3-setuptools 52.0.0-r3

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1.107 urfave-cli v1.22.1

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1.117 uap-go 0.0.0-20190826212731-daf92ba38329

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1.118 go-shortid v0.0.0-20171029131806

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1.120 go-yaml 2.3.0

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1.121 sqlx 0.0.0-20190426154859-38398a30ed85

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Protocol Buffers for Go with Gadgets

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

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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* cpp/src/arrow/vendored/ProducerConsumerQueue.h

is based on Folly's

* folly/Portability.h
* folly/lang/Align.h
* folly/ProducerConsumerQueue.h

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https://gist.github.com/cristianadam/ef920342939a89fae3e8a85ca9459b49

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

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

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

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
    ]
)
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

Found in path(s):
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```python
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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

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

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

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

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

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

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

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

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

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`,
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For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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1.133 nghttp2 1.43.0-r0

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1.134 python 3.9.5-r1

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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
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1.138 libintl 0.21-r0

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@end enumerate

@end iftex
@end info
@page
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```
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1.145 x-sync 0.0.0-20201020160332-67f06af15bc9

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1.147 go-runtime 1.16.9

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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"

}
return "", err
}
defer resp.Body.Close()

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

return string(data), nil

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

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
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tomb - support for clean goroutine termination in Go.

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```go
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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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package minio

import (  
  "bytes"  
  "context"  
  "encoding/xml"  
  "fmt"  
  "net/http"  
  "net/url"
  
  "github.com/minio/minio-go/v7/pkg/s3utils"
)

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

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

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

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

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

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

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

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

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

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

    if opts.VersionID != "" {
    }

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

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1.168 zstd v1.3.6-0.20190409195224-796139022798

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1.169 google-cloud-go v0.70.0
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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 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
}

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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#
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#   Name <email address>
# Keep the list alphabetically sorted.

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
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1.170 blang-semver 3.5.1+incompatible

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1.171 go-redis-redis 5.2.9

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.179.1 Available under license :  
procs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.  

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1.180 urllib3 1.26.5

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# Contributions to the urllib3 project

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

* niphlod <niphlod@gmail.com>
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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
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* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
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* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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* hartator <hartator@gmail.com>
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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
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* 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 ``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.jerde@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 <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

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

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

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

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1.193 py3-certifi 2020.12.5-r1

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

1.194 py3-lockfile 0.12.2-4.ph4

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1.195 alpine-baselayout 3.2.0-r16

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

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1.198 go-testing-interface 1.0.0

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1.199 go-mssqlldb 0.0.0-20200910202707-1e08a3fab204

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1.203 prometheus 1.8.2-0.20201014093524-73e2ce1bd643

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

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1.204 robot-robot-api 0.0.0-20211021002214-c8d6cb345f54

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

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

    import proto "github.com/golang/protobuf/proto"
    import fmt "fmt"
    import math "math"
import _ "google.golang.org/genproto/googleapis/api/annotations"
// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf
// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package
type ZtpLicenseDevice struct {
DeviceSerialNumber string `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
XXX_NoUnkeyedLiteral struct{} `json:"-"`
XXX_unrecognized []byte `json:"-"`
XXX_sizecache
int32 `json:"-"`
}
func (m *ZtpLicenseDevice) Reset()
{ *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
return fileDescriptor_cw_ztp_license_device_e27237926d594488, []int{0}
}
func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
xxx_messageInfo_ZtpLicenseDevice.Merge(dst, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}
var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo
func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
if m != nil {
return m.DeviceSerialNumber

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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, 0x02, 0xff, 0x6c, 0x00, 0x31, 0x4b, 0xc7, 0x30, 
    0x10, 0x05, 0x70, 0x0b, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff, 
    0x0b, 0x06, 0x01, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9, 
    0x6b, 0x00, 0x4f, 0x2f, 0x6d, 0x0c, 0x21, 0x22, 0x0a, 0x7f, 0x7e, 0x1e, 0xb1, 0x86, 0xb9, 0x5f, 
    0x28, 0x07, 0x8d, 0x81, 0x09, 0x8d, 0x4f, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f, 
    0x0c, 0x0b, 0x50, 0x0c, 0x13, 0x0c, 0x0d, 0x58, 0x44, 0x0e, 0x8d, 0x50, 0x1d, 0x09, 0x15, 0x02, 
    0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0x7e, 0x1d, 0x5c, 0x42, 0x4c, 0x42, 
    0x8d, 0x92, 0x5d, 0xc4, 0x77, 0x93, 0x9c, 0x2f, 0x6f, 0xe3, 0xa0, 0x4d, 0x0b, 0xc4, 0x0e, 0x9a, 
    0x87, 0xb3, 0x6f, 0x9f, 0x8b, 0xc0, 0x0e, 0x16, 0x70, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91, 
    0x0a, 0xc4, 0x17, 0xd0, 0x2f, 0xe2, 0xf9, 0x3f, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xa0, 0x7b, 0xb2, 
    0x8e, 0xe3, 0x77, 0x7d, 0xf8, 0x7d, 0xe7, 0x1c, 0x44, 0x7b, 0xc7, 0x0f, 0xb1, 0x41, 0x8f, 
    0xeb, 0x5c, 0x8b, 0xe0, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0xe6, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff, 
    0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00, 
}

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

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

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

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

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package
type ZtpLicense struct {
    Id          int32  `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"
    Status      string `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"
    LastUpdated int64  `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"
    XXX_NoUnkeyedLiteral struct{} `json:`.-`
    XXX_unrecognized     []byte  `json:`.-`
    XXX_sizecache       int32   `json:`.-`
}

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

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

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

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

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

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

var fileDescriptor_cw_ztp_license_f6745968de738545 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x16, 0x88, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0xf8, 0x01, 0xbd, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xfc, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0x7d, 0x9e, 0x19, 0x7e, 0x07,
    0xf6, 0xd5, 0x81, 0xf2, 0x2a, 0x06, 0x70, 0xa9, 0x38, 0x99, 0xb7, 0x48, 0x58, 0x5f, 0xc2, 0xf6e,
    0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xd1, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
    0x0a, 0x98, 0xca, 0xb0, 0xf7, 0xc0, 0xc5, 0xf9, 0x92, 0xf2, 0xf6, 0x90, 0xad, 0x6f, 0x78, 0x15,
    0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xc0, 0xa7, 0x85, 0xc0, 0xed, 0x4a, 0x53,
    0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0xb0, 0x7e, 0x1d, 0x4d, 0xa1, 0xc0, 0x6c, 0x0d, 0x39, 0xdb,
    0x44, 0x04, 0x6b, 0xc7, 0xa7, 0x7f, 0x5b, 0x5f, 0x3f, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
    0x16, 0x7b, 0xa4, 0x41, 0x28, 0x7c, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
    0xb0, 0xe5, 0x5b, 0xb4, 0x0f, 0xb6, 0xc7, 0xa7, 0xc0, 0x84, 0x92, 0x95, 0x23, 0x23, 0x97, 0x9f, 0x9e,
    0xb3, 0x0d, 0x00, 0x00, 0x00, 0xff, 0xff, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

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

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

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

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

```
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

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

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

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

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

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
  if m != nil {
    return m.SerialNumber
  }
}`
func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}
unc init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

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

var fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399 = []byte{
    // 219 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40, 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb, 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x10, 0x85, 0x3e, 0x96, 0xd9, 0xc9, 0x12, 0x07, 0x36, 0x99, 0x65, 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xe0, 0x3c, 0x1e, 0x88, 0xe0, 0x20, 0x8f, 0x01, 0x24, 0x8b, 0x60, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75, 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xe0, 0x1d, 0xbd, 0xe9, 0xb8, 0xe7, 0x7d, 0x39, 0x67, 0xd7, 0x29, 0xe1, 0x57, 0x16, 0x8b, 0x62, 0x35, 0x6f, 0xef, 0xed, 0x97, 0x3e, 0x2e, 0x18, 0x8f, 0xc6, 0xe5, 0x41, 0x1b, 0xf5, 0xe5, 0xe2, 0x66, 0xe8, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0xe3, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0x5a, 0x2b, 0x67, 0xe9, 0xf9, 0xcf, 0xe2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0x8a, 0x3d, 0x89, 0x8a, 0x87, 0x8a, 0x89, 0xo0, 0x2f, 0xc0, 0x3d, 0xe3, 0x3f, 0x7d, 0x35, 0xe6, 0x3e, 0x7e, 0x98, 0x5d, 0x81, 0x7f, 0xe6, 0x31, 0x7e, 0x25, 0xb0, 0x9f, 0x15, 0x00, 0x0d, 0xa2, 0xda, 0x36, 0xdb, 0x77, 0xe1, 0x55, 0x0f, 0xca, 0x1a, 0x9e, 0xc9, 0x8a, 0xb1, 0x17, 0x67, 0x9f, 0xe0, 0xc9, 0xe0, 0xc0, 0x77, 0x00, 0x00, 0x00, 0xff, 0xff, 0x6b, 0x8d, 0x49, 0x80, 0x12, 0x01, 0x00, 0x00, 0x00

1.205 certifi 2020.12.05

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1.206 libc-utils 0.7.2-r3

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1.207 brotli 1.0.9-r5

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1.208 go-macaron-inject 0.0.0-20160627170012-d8a0b8677191

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Found in path(s):
* /opt/cola/permits/1213299335_1635451814.84/0/golang-github-go-macaron-inject-master-zip/golang-github-go-
macaron-inject-master/golang-github-go-macaron-inject.spec

1.209 bzip2 1.0.8-r1
1.209.1 Available under license:

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

-------------------------------------------------------------------------------------
1.210 py3-msgpack 1.0.2-r1

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1.211 json-iterator-go 1.1.10

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1.212 promrus 1.2.0
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Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttprstd/golang_protobuf_extensions
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proofs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.213 idna 13.0.0

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1.214 retrying 1.3.3

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1.215 xorm.io-xorm 0.8.1

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1.216 influxdb 1.9.4

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1.217 blang-semver 0.0.0-20190414102917-ba2c2ddd8906

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1.219 contextlib2 0.6.0

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

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1.222 spew 1.1.1

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

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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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Footnotes:

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

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

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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1.233 py3-pip 20.3.4-r1

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

cabundle.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 $
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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
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releases have also been GPL-compatible; the table below summarizes
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3.2 3.1 2010 PSF yes

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1.242 mna-redisc 1.1.7

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1.243 gogoprotobuf 1.3.1

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Protocol Buffers for Go with Gadgets

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

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/*
 * Generated by ncscc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
 */

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

module CISCO-IMAGE-LICENSE-MGMT-MIB {

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

container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

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

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


entPhysicalIndex.

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

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

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

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

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

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

    Note: The configured next boot image level may not
    be the actual next boot image level. The actual next
    boot image level is denoted by cilmNextBootImageLevel
    which is determined based on the license availability.";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";
}
leaf cilmNextBootImageLevel {
    type cisco-image-license-mgmt-mib:BootImageLevel;
    description
    "This object indicates the next boot image level. The
    next boot image level can be different from configured
    level. The next boot image level is determined based
    on the availability of required license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";
}
leaf cilmCurrentLicenseStoreIndex {
    type uint32;
    description
    "This object indicates the license store index where the
    currently used license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in
    CISCO-LICENSE-MGMT-MIB.

    Note: The license store index can be '0' if no license is
    installed and device is running base image.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
}
leaf cilmCurrentLicenseIndex {
    type uint32;
    description
    "This object indicates the license index of the currently used
    license. This object has the same value as clmgmtLicenseIndex and
    uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB."
Note: The license index can be '0' if no license is installed and device is running base image.

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
}

leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
  "This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB."
  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."
  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.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

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

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

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

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

    leaf cilmImageLicenseName {
}
type cisco-image-license-mgmt-mib:LicenseNameList;

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

leaf cilmImageLicensePriority {
  type uint32 {
    range "1..255";
  }

description
"This object indicates the priority of the image level
mentioned by cilmImageLicenseImageLevel object of this
entry. The image level with the highest priority license
will be considered as the default level in the absense of
next boot image level configuration. For example if there
are three licenses l1, l2 and l3 in the ascending order of
priority, then by default l1 will be the level at which the
module will be running. If the next boot level is configured
then the configuration will override the priority. The highest
priority license supports a feature set which is a super set of
all other licenses."
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}

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

  container object-1 {
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
        mib:entPhysicalIndex";
      }
    }
  }
}
leaf cilmModuleName {
  type leafref {
  }
}

leaf cilmCurrentImageLevel {
  type leafref {
  }
}

container object-2 {

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

  leaf cilmModuleName {
    type leafref {
    }
  }

  leaf cilmConfiguredBootImageLevel {
    type leafref {
    }
  }

  smiv2:alias "ciscoImageLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.640";
  }
}
smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

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

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

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

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

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

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--
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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

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

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

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION
"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }
jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }
jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }
jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

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

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

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

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

jnxLicenseId OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Installed feature licenses Id."
::= { jnxLicenseInstallEntry 1 }
jnxLicenseVersion OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION "License Version information"
::= { jnxLicenseInstallEntry 2 }

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

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

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

-- Feature Listing Table

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

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

JnxLicenseFeatureListEntry ::= SEQUENCE {
   jnxLicenseFeatureId INTEGER,
   jnxLicenseFeatureName DisplayString,
   -- Other fields...}
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  }

Open Source Used In Crosswork Health Insights 4.1.0  1785
jnxLicenseFeatureLicenseNeeded OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Licenses Needed"
::= { jnxLicenseFeatureListEntry 7 }

-- ****************************************************************
-- License configuration parameters
-- ****************************************************************
jnxLicenseRenewBeforExpiration OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION "License renew lead time before expiration in days."
::= { jnxLicenseSettings 1 }
jnxLicenseRenewInterval OBJECT-TYPE
SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION "License checking interval in hours."
::= { jnxLicenseSettings 2 }
jnxLicenseAutoUpdate OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "License auto update URL of a license server."
::= { jnxLicenseSettings 3 }

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

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

jnxLicenseAboutToExpire NOTIFICATION-TYPE
OBJECTS  { jnxLicenseFeatureName }
STATUS   current
DESCRIPTION
"The SNMP trap that is generated when the license period for
feature identified by jnxLicenseFeatureName is about to expire"
::= { jnxLicenseNotifications 3 }

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

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

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

module CISCO-LICENSE-MGMT-MIB {

prefix "cisco-license-mgmt-mib";

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

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

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

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

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

organization
"Cisco Systems Inc.";

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

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

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

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

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

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

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

EULA:
End User License Agreement.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PERMISSION TICKET:
Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.
REHOST TICKET:
Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

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

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

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

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

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

STEPS TO REGENERATE LAST REHOST TICKET:
To regenerate last rehost ticket, the management
application
1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:
To backup all licenses installed in the device, the management application
1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:
To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.
1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

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

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

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

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

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

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

    The new module compliance is ciscoLicenseMgmtComplianceRev1."
}

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

    The new module compliance is ciscoLicenseMgmtComplianceRev1."
}

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

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

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

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

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

typedef ClmgmtLicenseActionState {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "pending" {
      value "2";
    }
  }
```
enum "inProgress" {
  value "3";
}
enum "successful" {
  value "4";
}
enum "partiallySuccessful" {
  value "5";
}
enum "failed" {
  value "6";
}

description
"The state of license action execution.

none(1) - action is not yet scheduled to be executed.
pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.
inProgress(3) - action execution has started and is in progress.
successful(4) - action has completed successfully.
partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These additional objects are listed in the description of the corresponding action tables.
failed(6) - action has failed."
}
typedef ClmgmtLicenseActionFailCause {
type enumeration {
  enum "none" {
    value "1";
  }
  enum "generalFailure" {
    value "2";
  }
}
enum "transferProtocolNotSupported" {
    value "3";
}

enum "fileServerNotReachable" {
    value "4";
}

enum "unrecognizedEntPhysicalIndex" {
    value "5";
}

enum "invalidLicenseFilePath" {
    value "6";
}

enum "invalidLicenseFile" {
    value "7";
}

enum "invalidLicenseLine" {
    value "8";
}

enum "licenseAlreadyExists" {
    value "9";
}

enum "licenseNotValidForDevice" {
    value "10";
}

enum "invalidLicenseCount" {
    value "11";
}

enum "invalidLicensePeriod" {
    value "12";
}

enum "licenseInUse" {
    value "13";
}

enum "invalidLicenseStore" {
    value "14";
}

enum "licenseStorageFull" {
    value "15";
}

enum "invalidPermissionTicketFile" {
    value "16";
}

enum "invalidPermissionTicket" {
    value "17";
}

enum "invalidRehostTicketFile" {
    value "18";
}
enum "invalidRehostTicket" {
    value "19";
}

enum "invalidLicenseBackupFile" {
    value "20";
}

enum "licenseClearInProgress" {
    value "21";
}

enum "invalidLicenseEULAFile" {
    value "22";
}

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

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

generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.

transferProtocolNotSupported(3) - protocol selected is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid

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

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

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

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

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

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

invalidLicensePeriod(12) - Validity period is invalid for
this expiring license.
licenseInUse(13) - License file is in use by a
feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is no more space in the
license storage.
invalidPermissionTicketFile(16) - The permission ticket file
path is not accessible.
invalidPermissionTicket(17) - The permission ticket file
contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is
not accessible.
invalidRehostTicket(19) - The rehost ticket file contents
are not valid.
invalidLicenseBackupFile(20) - License backup store path
is not accessible.
licenseClearInProgress(21) - When license clear action is
in progress, license backup
action is not permitted to
avoid race conditions. This
error code is sent back in
response to a license backup
action when a license clear
action is in progress or in
pending state. Try again in few
seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible.

}
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
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.
  clmgmtLicenseExpiryWarning
  clmgmtLicenseUsageCountExceeded
  clmgmtLicenseUsageCountAboutToExceed
  clmgmtLicenseSubscriptionExpiryWarning
  clmgmtLicenseSubscriptionExpired
  clmgmtLicenseEvalRTUTransitionWarning
  clmgmtLicenseEvalRTUTransition";
  smiv2:defval "true";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.1";
}
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
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
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 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";
leaf clmgmtLicenseServerUsername {
    type snmp-framework:SnmpAdminString {
        length "0..96";
    }
    description
        "This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}

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

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

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

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

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

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</td>
</tr>
</tbody>
</table>
backup store.

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

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

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

leaf clmgmtLicenseJobQPosition {
type uint32;
description
"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

leaf clmgmtLicenseActionFailCause {
type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
description
"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6).";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}
leaf clmgmtLicenseActionStorageType {
    type snmpv2-tc:StorageType;
    description
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row."
    smiv2:defval "volatile";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

leaf clmgmtLicenseActionRowStatus {
    type snmpv2-tc:RowStatus;
    description
    "This object indicates the the status of this table entry.
    Once the entry status is set to active(1), the associated
    entry cannot be modified until the action completes
    (clmgmtLicenseConfigCommandStatus is set to a value
    other than inProgress(3)). Once the action completes
    the only operation possible after this is to delete
    the row. It is recommended that the management application
    should delete entries in this table after reading
    the result. In order to prevent old entries from
    clogging the table, entries will be aged out, but an
    entry will never be deleted within 5 minutes of
    completion";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}

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

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

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

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

container clmgmtLicenseActionResultTable {

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

list clmgmtLicenseActionResultEntry {
  key "clmgmtLicenseActionIndex clmgmtLicenseNumber";

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

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

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

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

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

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

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

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

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

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

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

leaf clmgmtLicenseStoreSizeRemaining {
    type uint32;
    units "bytes"
    description
    "This object indicates the number of bytes still remaining to be used for new license installations in the license
store.
smiv2:max-access "read-only"
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.4"
}
}
}

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 "1.3.6.1.4.1.9.9.543.1.2.1.1"
}
}
container clmgmtLicenseInfoTable {
  description
    "This table contains information about all the licenses installed on the device."
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";
}

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

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

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

leaf clmgmtLicenseIndex {
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;
  description
    "This object uniquely identifies a license within the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";
}
leaf clmgmtLicenseFeatureName {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description "This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

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

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension" {
      value "2";
    }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
  }
}
enum "evalRightToUse" {  
    value "8";
}
enum "rightToUse" {  
    value "9";
}
enum "permanentRightToUse" {  
    value "10";
}

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

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

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";
  }

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 "1.3.6.1.4.1.9.9.543.1.2.4.1.3";
}

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 "1.3.6.1.4.1.9.9.543.1.2.4.1.4";
}

leaf clmgmtFeatureStartDate {
  type snmpv2-tc:DateAndTime;
  description
  "This object indicates the license start date of the feature.
  This object is applicable if at least one of the licenses used
  for this feature has a valid start date. The start date will
  be the earliest of the valid start dates of all the licenses
  used for this feature. If none of the licenses used for this
  feature have a valid start date then this object will contain an
  octet string of length 0.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
leaf clmgmtFeatureEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license end date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid end date. The end date will
    be the latest of the valid end dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid end date then this object will contain an
    octet string of length 0.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

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

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

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

  list clmgmtDevCredExportActionEntry {
    key "clmgmtDevCredExportActionIndex";
    description
      "An entry for each device credential export action that
      is being executed or was executed recently. The management
      application triggers the export by creating an entry in this
      table. This can be done in the following 2 methods"
1. CREATE-AND-GO method
Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

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

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

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

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

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

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 "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

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 "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

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 command to be executed.
        Command                          Remarks
        -------                          -------
        noOp(1)                          No operation will be performed.
        getDeviceCredentials(2)          Exports device credentials";
    smiv2:defval "noOp";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
}

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

leaf clmgmtDevCredCommandFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
    }
}
enum "unknownError" {
    value "2";
}
enum "transferProtocolNotSupported" {
    value "3";
}
enum "fileServerNotReachable" {
    value "4";
}
enum "unrecognizedEntPhysicalIndex" {
    value "5";
}
enum "invalidFile" {
    value "6";
}

description
"This object indicates the the reason for device credentials export operation failure.

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

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

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

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

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

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

class object-1 {

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

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

}
leaf clmgmtFeatureName {
  type leafref {
  }
}

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 clmgmtLicenseExpiryWarning {
  description
  "This notification is sent when a license is about to expire. This notification will go out multiple times. First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";
}
container object-1 {

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

    leaf clmgmtFeatureIndex {
        type leafref {
        }
    }

    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 clmgmtFeatureName {
        type leafref {
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
        }
    }

}
mib:clmgmtFeatureVersion";
   }
}
}

container object-3 {

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

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

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

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

  container object-1 {

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

    leaf clmgmtLicenseStoreUsed {

type leafref {
}

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-mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
        }
    }

    leaf clmgmtLicenseMaxUsageCount {
        type leafref {
        }
    }

    container object-4 {

        leaf entPhysicalIndex {
            type leafref {
            }
        }
    }
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 {
        }
    }
}
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 clmgmtLicenseUsageCountRemaining {
    type leafref {
    }
}
}

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 {

leaf clmgmtLicenseComments {
    type leafref {
    }
}

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

container object-1 {

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

    leaf clmgmtLicenseStoreUsed {
        type leafref {
        }
    }

    leaf clmgmtLicenseIndex {

container object-3 {

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

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

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

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

container object-4 {

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

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

leaf clmgmtLicenseIndex {
  type leafref {
  }
}

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 {
    }
}
}

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 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";
    }
  }
}
leaflet 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";
    }
}

leaflet 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:clmgmtLicenseStoreUsed";
    }
}

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

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";
}

carrier 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:clmgmtLicenseStoreUsed";
        }
    }

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

    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-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 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 clmgmtLicenseIndex {
    type leafref {
    }
}

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 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 clmgmtLicenseSubscriptionExpiryWarning {

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

container object-1 {
    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
            mib:entPhysicalIndex";
            }
    }
}

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

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

container object-2 {
    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
            mib:entPhysicalIndex";
        }
    }
}

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

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

    }
    }

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 {
    }
    }
}

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: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 {
    }
}
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 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 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 clmgmtFeatureName {
        type leafref {
            }
        }
    }

leaf clmgmtFeatureIndex {
  type leafref {
  }
}

leaf clmgmtFeatureEndDate {
  type leafref {
  }
}

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

  container object-1 {

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

    leaf clmgmtFeatureIndex {
      type leafref {
      }
    }

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

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";
}

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

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

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

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

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

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

      Postal: 170 W Tasman Drive
      San Jose, CA  95134
      USA

      Tel: +1 800 553 -NETS

      E-mail: cs-snmp@cisco.com"
   DESCRIPTION
      "The MIB module for managing licenses on the system.
The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

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

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

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

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

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

EULA:
End User License Agreement.

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

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

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

GRACE PERIOD LICENSE:
Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.
PERMANENT LICENSE:
Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

STEPS TO REGENERATE LAST REHOST TICKET:
To regenerate last rehost ticket, the management application
1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:
To backup all licenses installed in the device, the management application
1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE & EXPORT EULA:
To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or
more licenses without installing licenses as follows.
1. Specifies the license file path that has licenses to be
   installed
2. Specifies the EULA file path where EULA need to be
   exported to
3. Executes the generate EULA action.

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

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

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

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

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

REVISION        "201204190000Z"
DESCRIPTION
"This version of the MIB adds support for Permanent Right to use (RTU)
licensing. The revisions are:
o Updated clmgmtLicenseType object to support the following new
types of license:
  permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1.”

REVISION        "201104190000Z"
DESCRIPTION
"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:
o Added RTU license definition to MIB description above.
o Updated clmgmtLicenseType object to support the following new types of license:
evalRightToUse
rightToUse
o Added following objects to clmgmtLicenseInfoTable
clmgmtLicensePeriodUsed
o Added following objects to clmgmtLicensableFeatureTable
clmgmtFeaturePeriodUsed
o Added the following notifications
  clmgmtLicenseEvalRTUTransitionWarning
  clmgmtLicenseEvalRTUTransition
o Added the following conformance groups
  clmgmtLicenseRTUGroup
  clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

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

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION       "200610030000Z"
DESCRIPTION
"Initial version of this MIB module.
::= { ciscoMgmt 543 }
ciscoLicenseMgmtMIBNotifs  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects  OBJECT IDENTIFIER
 ::=  { ciscoLicenseMgmtMIBObjects 4 }

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

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

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION
STATUS current

DESCRIPTION
"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to 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)
}

ClmgmtLicenseActionFailCause ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"Reason for license action failure. Defines error codes for all the license actions.

none(1) - action execution has not started yet. If the action is completed and the action is successful, then also none(1) is returned to indicate that there are no errors.
generalFailure(2) - General licensing failure. This will be used for resource unavailability failures. Ex: Lack of memory.
transferProtocolNotSupported(3) - protocol selected is not supported.
fileServerNotReachable(4) - file server is not reachable.
unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not valid
invalidLicenseFilePath(6) - The license file path is not accessible.
invalidLicenseFile(7) - Contents of license file are not valid.
invalidLicenseLine(8) - License string in the license file is not valid.
licenseAlreadyExists(9) - Management application is trying to install a license that already exists.
licenseNotValidForDevice(10) - This license is not valid for the device/entPhysicalIndex specified.
invalidLicenseCount(11) - Invalid count for this counted license.
invalidLicensePeriod(12) - Validity period is invalid for this expiring license.
licenseInUse(13) - License file is in use by a feature/image.
invalidLicenseStore(14) - License store is not valid.
licenseStorageFull(15) - There is no more space in the license storage.
invalidPermissionTicketFile(16) - The permission ticket file path is not accessible.
invalidPermissionTicket(17) - The permission ticket file contents are not valid.
invalidRehostTicketFile(18) - The rehost ticket file path is not accessible.
invalidRehostTicket(19) - The rehost ticket file contents are not valid.
invalidLicenseBackupFile(20) - License backup store path is not accessible.
licenseClearInProgress(21) - When license clear action is in progress, license backup action is not permitted to avoid race conditions. This error code is sent back in response to a license backup action when a license clear action is in progress or in pending state. Try again in few seconds.
invalidLicenseEULAFile(22) - EULA file path is not accessible.

SYNTAX INTEGER {
    none(1),
generalFailure(2),
transferProtocolNotSupported(3),
fileServerNotReachable(4),
unrecognizedEntPhysicalIndex(5),
invalidLicenseFilePath(6),
invalidLicenseFile(7),
invalidLicenseLine(8),
licenseAlreadyExists(9),
licenseNotValidForDevice(10),
invalidLicenseCount(11),
invalidLicensePeriod(12),
licenseInUse(13),
invalidLicenseStore(14),
licenseStorageFull(15),
invalidPermissionTicketFile(16),
invalidPermissionTicket(17),
invalidRehostTicketFile(18),
invalidRehostTicket(19),
invalidLicenseBackupFile(20),
licenseClearInProgress(21),
invalidLicenseEULAFile(22)
}
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
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.”

INDEX { clmgmtLicenseActionIndex }
::= { clmgmtLicenseActionTable 1 }

ClmgmtLicenseActionEntry ::= SEQUENCE {
  clmgmtLicenseActionIndex            Unsigned32,
  clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
  clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
  clmgmtLicenseServerAddressType      InetAddressType,
  clmgmtLicenseServerAddress         InetAddress,
  clmgmtLicenseServerUsername        SnmpAdminString,
  clmgmtLicenseServerPassword        SnmpAdminString,
  clmgmtLicenseFile                   SnmpAdminString,
  clmgmtLicenseStore                  Unsigned32,
  clmgmtLicenseActionLicenseIndex     ClmgmtLicenseIndexOrZero,
  clmgmtLicensePermissionTicketFile   SnmpAdminString,
  clmgmtLicenseRehostTicketFile       SnmpAdminString,
  clmgmtLicenseBackupFile             SnmpAdminString,
  clmgmtLicenseStopOnFailure          TruthValue,
  clmgmtLicenseAction                 INTEGER,
  clmgmtLicenseActionState            ClmgmtLicenseActionState,
  clmgmtLicenseJobQPosition           Unsigned32,
  clmgmtLicenseActionFailCause        ClmgmtLicenseActionFailCause,
  clmgmtLicenseActionStorageType      StorageType,
  clmgmtLicenseActionRowStatus        RowStatus,
  clmgmtLicenseAcceptEULA             TruthValue,
  clmgmtLicenseEULAFile               SnmpAdminString
}

clmgmtLicenseActionIndex OBJECT-TYPE
SYNTAX     Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS      current
DESCRIPTION
  "This object uniquely identifies a row in
  clmgmtLicenseActionTable. The management application should choose
  this value by reading clmgmtNextFreeLicenseActionIndex
  while creating an entry in this table. If an entry already
  exists with this index, the creation of the entry will not
  continue and error will be returned. The management application
  should read the value of clmgmtNextFreeLicenseActionIndex
  again and retry with the new value for this object."
::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE
SYNTAX     PhysicalIndexOrZero
MAX-ACCESS read-create
STATUS: current

DESCRIPTION:
“This object represents the entPhysicalIndex of the device where the action is being executed. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the management application. Examples include stackable switches, devices with route processor and line card configuration. If this object is not set, the license action will be executed on the master device. Note: This object need not be set if there is a stand alone device”

DEFVAL: [ 0 ]

::= { clmgmtLicenseActionEntry 2 }

cImgmtLicenseActionTransferProtocol 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. cImgmtLicenseFile
2. cImgmtLicensePermissionTicketFile
3. cImgmtLicenseRehostTicketFile
4. cImgmtLicenseBackupFile

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 }

cImgmtLicenseServerAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-create
STATUS current

DESCRIPTION:
“This object indicates the transport type of the address contained in cImgmtLicenseServerAddress object. This must be set when cImgmtLicenseActionTransferProtocol is not none(1) or local(2).”

DEFVAL: [ unknown ]

::= { clmgmtLicenseActionEntry 4 }

cImgmtLicenseServerAddress 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."
clmgmtLicenseJobQPosition OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state."
 ::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE
SYNTAX ClmgmtLicenseActionFailCause
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."
 ::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."
DEFVAL { volatile }
 ::= { clmgmtLicenseActionEntry 19 }

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

```{ clmgmtLicenseActionEntry 20 }
```

**clmgmtLicenseAcceptEULA OBJECT-TYPE**

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

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

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

DEFVAL { false }

```{ clmgmtLicenseActionEntry 21 }
```

**clmgmtLicenseEULAFile OBJECT-TYPE**

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

DEFVAL { "" }

```{ clmgmtLicenseActionEntry 22 }
```

-- License action results table.

**clmgmtLicenseActionResultTable OBJECT-TYPE**

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible
STATUS          current
DESCRIPTION
"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license."
 ::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE
SYNTAX          ClmgmtLicenseActionResultEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION
"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license. These entries are created immediately after action execution when the action involves multiple licenses. These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."
INDEX           {
    clmgmtLicenseActionIndex,
    clmgmtLicenseNumber
}
 ::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
    clmgmtLicenseNumber               Unsigned32,
    clmgmtLicenseIndivActionState     ClmgmtLicenseActionState,
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}

clmgmtLicenseNumber OBJECT-TYPE
SYNTAX          Unsigned32 (1..4294967295)
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION
"This object indicates the sequence number of this license in the list of licenses on which the action is executed. For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file."
 ::= { clmgmtLicenseActionResultEntry 1 }
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clmgmtLicenseIndivActionState

SYNTAX ClmgmtLicenseActionState
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the state of action on this individual license."
::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause

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

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

SYNTAX ClmgmtLicenseStoreInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in clmgmtLicenseStoreInfoTable. Each entry contains information about a license store allocated on the device"
INDEX { [ entPhysicalIndex, clmgmtLicenseStoreIndex ] }
::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
  clmgmtLicenseStoreIndex Unsigned32,
  clmgmtLicenseStoreName SnmpAdminString,
  clmgmtLicenseStoreTotalSize Unsigned32,
}
clmgmtLicenseStoreSizeRemaining Unsigned32

}

clmgmtLicenseStoreIndex OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This object uniquely identifies a license store within the device."
 ::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE
SYNTAX SnmpAdminString (SIZE (0..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object indicates the name of the license store within the device. It is a file in device's local file system i.e., either on a local disk or flash or some other storage media. For example, the value of this object can be 'disk1:lic_store_1.txt' or 'flash:lic_store_2.txt"
 ::= { clmgmtLicenseStoreInfoEntry 2 }

clmgmtLicenseStoreTotalSize OBJECT-TYPE
SYNTAX Unsigned32
UNITS "bytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object indicates the total number of bytes that are allocated to the license store."
 ::= { clmgmtLicenseStoreInfoEntry 3 }

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE
SYNTAX Unsigned32
UNITS "bytes"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object indicates the number of bytes still remaining to be used for new license installations in the license store."
 ::= { clmgmtLicenseStoreInfoEntry 4 }

-- License Device Info Table
clmgmtLicenseDeviceInfoTable OBJECT-TYPE
SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains objects that provide licensing related information at the device level. Entries will exist only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack."
 ::= { clmgmtLicenseInformation 2 }

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
SYNTAX ClmgmtLicenseDeviceInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in clmgmtLicenseDeviceInfoTable. Each entry contains device level licensing information for a device."
INDEX { entPhysicalIndex }
 ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
    clmgmtDefaultLicenseStore Unsigned32
}

clmgmtDefaultLicenseStore OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the clmgmtLicenseStoreIndex of default store in the device. There will be only one default license store per device. If no license store is specified during license install, this default license store will be used."
 ::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"This table contains information about all the licenses installed on the device."
 ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
SYNTAX ClmgmtLicenseInfoEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"An entry in clmgmtLicenseInfoTable. Each entry contains information about a license installed on the device. This entry gets created when a license is installed successfully. Management application can not create these entries directly, but will do so indirectly by executing license install action. Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."
INDEX

{ entPhysicalIndex, clmgmtLicenseStoreUsed, clmgmtLicenseIndex }
 ::= { clmgmtLicenseInfoTable 1 }

ClmgmtLicenseInfoEntry ::= SEQUENCE {
  clmgmtLicenseStoreUsed Unsigned32,
  clmgmtLicenseIndex ClmgmtLicenseIndex,
  clmgmtLicenseFeatureName SnmpAdminString,
  clmgmtLicenseFeatureVersion SnmpAdminString,
  clmgmtLicenseType INTEGER,
  clmgmtLicenseCounted TruthValue,
  clmgmtLicenseValidityPeriod Unsigned32,
  clmgmtLicenseValidityPeriodRemaining Unsigned32,
  clmgmtLicenseExpiredPeriod Unsigned32,
  clmgmtLicenseMaxUsageCount Unsigned32,
  clmgmtLicenseUsageCountRemaining Unsigned32,
  clmgmtLicenseEULAStatus TruthValue,
  clmgmtLicenseComments SnmpAdminString,
  clmgmtLicenseStatus INTEGER,
  clmgmtLicenseStartDate DateAndTime,
  clmgmtLicenseEndDate DateAndTime,
  clmgmtLicensePeriodUsed Unsigned32
}

clmgmtLicenseStoreUsed OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS    current

DESCRIPTION
"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."
 ::= { clmgmtLicenseInfoEntry 1 }

clmgmtLicenseIndex OBJECT-TYPE
SYNTAX    ClmgmtLicenseIndex
MAX-ACCESS not-accessible
STATUS    current

DESCRIPTION
"This object uniquely identifies a license within the device."
 ::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE
SYNTAX    SnmpAdminString (SIZE (0..128))
MAX-ACCESS read-only
STATUS    current

DESCRIPTION
"This object indicates the name of the feature that is using or can use this license. A license can be used by only one feature. Examples of feature name are: 'IPBASE', 'ADVIPSERVICE'."
 ::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE
SYNTAX    SnmpAdminString (SIZE (0..128))
MAX-ACCESS read-only
STATUS    current

DESCRIPTION
"This object indicates the version of the feature that is using or can use this license. Examples of feature version are: '1.0', '2.0'
 ::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE
SYNTAX    INTEGER  {
    demo(1),
    extension(2),
    gracePeriod(3),
    permanent(4),
    paidSubscription(5),
    evaluationSubscription(6),
    extensionSubscription(7),
    evalRightToUse(8),
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 }
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 license 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 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.”

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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."

```plaintext
::= { clmgmtLicenseDeviceInformation 2 }
```

clmgmtDevCredExportActionEntry OBJECT-TYPE
SYNTAX ClmgmtDevCredExportActionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

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

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

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

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

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset."
INDEX  { clmgmtDevCredExportActionIndex }  ::=  { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry  ::=  SEQUENCE  {
    clmgmtDevCredExportActionIndex  Unsigned32,
    clmgmtDevCredEntPhysicalIndex  PhysicalIndexOrZero,
    clmgmtDevCredTransferProtocol  ClmgmtLicenseTransferProtocol,
    clmgmtDevCredServerAddressType  InetAddressType,
    clmgmtDevCredServerAddress  InetAddress,
    clmgmtDevCredServerUsername  SnmpAdminString,
    clmgmtDevCredServerPassword  SnmpAdminString,
    clmgmtDevCredExportFile  SnmpAdminString,
    clmgmtDevCredCommand  INTEGER,
    clmgmtDevCredCommandState  ClmgmtLicenseActionState,
    clmgmtDevCredCommandFailCause  INTEGER,
    clmgmtDevCredStorageType  StorageType,
    clmgmtDevCredRowStatus  RowStatus
}

clmgmtDevCredExportActionIndex  OBJECT-TYPE
SYNTAX  Unsigned32  (1..4294967295)
MAX-ACCESS  not-accessible
STATUS  current
DESCRIPTION
"This object uniquely identifies a row in
clmgmtDevCredExportActionTable. The management application
chooses this value by reading
clmgmtNextFreeDevCredExportActionIndex while creating an
entry in this table. If an entry already exists with this
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object."
 ::=  { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex  OBJECT-TYPE
SYNTAX  PhysicalIndexOrZero
MAX-ACCESS  read-create
STATUS  current
DESCRIPTION
"This object represents the entPhysicalIndex of the device
for which the device credentials are being retrieved. This
object is mainly used in devices where one device is acting
as a master and rest of the devices as slaves. The master
device is responsible for SNMP communication with the
manager. Examples include stackable switches, devices with
router processor and line cards."
Note: This object need not be set if it is a stand alone device
DEFVAL { 0 }
 ::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE
SYNTAX ClmgmtLicenseTransferProtocol
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the transfer protocol to be used when copying files as specified in the following objects.
1. clmgmtDevCredExportFile
"
DEFVAL { none }
 ::= { clmgmtDevCredExportActionEntry 3 }

clmgmtDevCredServerAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object. This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."
DEFVAL { unknown }
 ::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

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

The format of this address depends on the value of the clmgmtDevCredServerAddressType object"
DEFVAL { "" }
 ::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE
SYNTAX SnmpAdminString (SIZE (0..96))
MAX-ACCESS  read-create
STATUS       current
DESCRIPTION
"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."
DEFVAL      { "" }
 ::=  { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE
SYNTAX     SnmpAdminString (SIZE  (0..96))
MAX-ACCESS read-create
STATUS      current
DESCRIPTION
"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."
DEFVAL      { "" }
 ::=  { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE
SYNTAX     SnmpAdminString (SIZE  (0..255))
MAX-ACCESS read-create
STATUS      current
DESCRIPTION
"This object represents file where device credentials needs to be exported to."
 ::=  { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE
SYNTAX     INTEGER { noOp(1),
                          getDeviceCredentials(2) }
MAX-ACCESS read-create
STATUS      current
DESCRIPTION
"This object indicates the the command to be executed."

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

getDeviceCredentials(2) Exports device credentials
DEFVAL { noOp }
::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE
SYNTAX ClmgmtLicenseActionState
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."
::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE
SYNTAX INTEGER {
  none(1),
  unknownError(2),
  transferProtocolNotSupported(3),
  fileServerNotReachable(4),
  unrecognizedEntPhysicalIndex(5),
  invalidFile(6)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object indicates the reason for device credentials export operation failure.

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

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

::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION "This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."
DEFVAL { volatile }
::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION "This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtDevCredCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row.

clmgmtDevCredExportFile is a mandatory object to be set when creating this entry."
::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:
clmgmtLicenseExpired
clmgmtLicenseExpiryWarning
clmgmtLicenseUsageCountExceeded
clmgmtLicenseUsageCountAboutToExceed
clmgmtLicenseSubscriptionExpiryWarning"
clmgmtLicenseSubscriptionExtExpiryWarning  
clmgmtLicenseSubscriptionExpired  
clmgmtLicenseEvalRTUTransitionWarning  
clmgmtLicenseEvalRTUTransition

DEFVAL { true }
 ::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object indicates whether the device should generate
notifications related to license deployment. This object
enables/disables sending following notifications:
clmgmtLicenseInstalled
clmgmtLicenseCleared
clmgmtLicenseRevoked
clmgmtLicenseEULAAccepted"
DEFVAL { true }
 ::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object indicates whether the device should generate
notifications related to error conditions in enforcing
licensing. This object enables/disables sending following
notifications:
clmgmtLicenseNotEnforced"
DEFVAL { true }
 ::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
OBJECTS { 
clmgmtFeatureName,  
clmgmtFeatureVersion
}
STATUS current
DESCRIPTION
"This notification is sent, when a feature license expires. This notification will be sent continuously
every week even after the expiry to alert the management
application."
clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
OBJECTS
  { clmgmtFeatureName, clmgmtFeatureVersion, clmgmtFeatureValidityPeriodRemaining }
STATUS current
DESCRIPTION
"This notification is sent when a license is about to expire. This notification will go out multiple times. First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE
OBJECTS
  { clmgmtLicenseFeatureName, clmgmtLicenseFeatureVersion, clmgmtLicenseMaxUsageCount, clmgmtFeatureWhatIsCounted, clmgmtLicenseComments }
STATUS current
DESCRIPTION
"This notification is sent when clmgmtLicenseUsageCountRemaining has reached clmgmtLicenseMaxUsageCount for a counting license."

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE
OBJECTS
  { clmgmtLicenseFeatureName, clmgmtLicenseFeatureVersion, clmgmtLicenseMaxUsageCount, clmgmtLicenseUsageCountRemaining, clmgmtFeatureWhatIsCounted, clmgmtLicenseComments }
STATUS current
DESCRIPTION
"This notification is sent when clmgmtLicenseUsageCountRemaining has reached 80% of clmgmtLicenseMaxUsageCount for a counting license. This is a warning notification to the management application that very soon the maximum count will be reached"
and after that the device will not allow new entities to make use of this license.

::= { ciscoLicenseMgmtMIBNotifs 4 }

clmgmtLicenseInstalled NOTIFICATION-TYPE
OBJECTS { clmgmtLicenseFeatureName, clmgmtLicenseFeatureVersion, clmgmtLicenseType, clmgmtLicenseComments }

STATUS current

DESCRIPTION
"This notification is sent when a license is installed successfully."

::= { ciscoLicenseMgmtMIBNotifs 5 }

clmgmtLicenseCleared NOTIFICATION-TYPE
OBJECTS { clmgmtLicenseFeatureName, clmgmtLicenseFeatureVersion, clmgmtLicenseType, clmgmtLicenseComments }

STATUS current

DESCRIPTION
"This notification is sent when a license is cleared successfully."

::= { ciscoLicenseMgmtMIBNotifs 6 }

clmgmtLicenseRevoked NOTIFICATION-TYPE
OBJECTS { clmgmtLicenseFeatureName, clmgmtLicenseFeatureVersion, clmgmtLicenseType, clmgmtLicenseComments }

STATUS current

DESCRIPTION
"This notification is sent when a license is revoked successfully."

::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE
OBJECTS { clmgmtFeatureName, clmgmtFeatureVersion }


STATUS current

DESCRIPTION
"This notification is sent when a user accepts End User License Agreement (EULA) for a license."
::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE
OBJECTS
{ clmgmtFeatureName,
  clmgmtFeatureVersion
}
STATUS current
DESCRIPTION
"This notification is sent when a license does not exist for a feature, but the feature is a mandatory feature and it should run. This notification will be sent out periodically to indicate that there is no license installed for this feature and it needs to be done as soon as possible."
::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE
OBJECTS
{ clmgmtFeatureName,
  clmgmtFeatureVersion,
  clmgmtFeatureEndDate
}
STATUS current
DESCRIPTION
"This notification is sent when a subscription license of a feature is about to expire. This notification will be sent as per the following schedule:
Once a week for the last eight weeks
Once a day for the last week
Once an hour for the last day"
::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE
OBJECTS
{ clmgmtFeatureName,
  clmgmtFeatureVersion,
  clmgmtFeatureEndDate
}
STATUS current
DESCRIPTION
"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date
is reached."
::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE
OBJECTS   
          
          clmgmtFeatureName,
          clmgmtFeatureVersion,
          clmgmtFeatureEndDate
}
STATUS  current
DESCRIPTION
  "This notification will be sent after a subscription license
  of a feature completely expires. It will be sent once a day
  after the license has completely expired"
::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE
OBJECTS   
          
          clmgmtFeatureName,
          clmgmtFeatureVersion,
          clmgmtFeatureValidityPeriodRemaining
}
STATUS  current
DESCRIPTION
  "This notification is sent when Evaluation to Right to use (RTU)
  license transition is about to happen. The first notification
  will be sent 10 days before the transition and second
  notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
OBJECTS   
          
          clmgmtFeatureName,
          clmgmtFeatureVersion
}
STATUS  current
DESCRIPTION
  "This notification is sent, when a feature license transitions
  from a evaluation to a Right to use (RTU) license."
::= { ciscoLicenseMgmtMIBNotifs 14 }

-- Conformance

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
 ::= { ciscoLicenseMgmtMIBConform 2 }
ciscoLicenseMgmtCompliance MODULE-COMPLIANCE
STATUS    deprecated
DESCRIPTION
   "Compliance statement for Cisco license mgmt MIB."
MODULE     -- this module
MANDATORY-GROUPS {
   clmgmtLicenseDeploymentGroup, clmgmtLicenseDeviceInformationGroup, clmgmtLicenseInformationGroup, clmgmtLicensableFeatureInformationGroup, clmgmtLicenseDevCredGroup, clmgmtLicenseNotificationEnableGroup, clmgmtLicenseUsageNotifGroup, clmgmtLicenseDeploymentNotifGroup, clmgmtLicenseErrorNotifGroup
}

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

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
STATUS    current
DESCRIPTION
   "Compliance statement for Cisco license mgmt MIB."
MODULE     -- this module
MANDATORY-GROUPS {
   clmgmtLicenseDeploymentGroup, clmgmtLicenseDeviceInformationGroup, clmgmtLicenseInformationGroup, clmgmtLicensableFeatureInformationGroup, clmgmtLicenseDevCredGroup, clmgmtLicenseNotificationEnableGroup, clmgmtLicenseUsageNotifGroup, clmgmtLicenseDeploymentNotifGroup, clmgmtLicenseErrorNotifGroup
}

GROUP       clmgmtLicenseStoreInformationGroup
DESCRIPTION
   "This group is mandatory for all devices where multiple license stores are supported."

GROUP       clmgmtLicenseSubscriptionGroup
DESCRIPTION
"This object group is mandatory for all devices that support subscription licensing."

GROUP     clmgmtLicenseSubscriptionUsageNotifGroup
DESCRIPTION
"This notification group is mandatory for all devices that support subscription licensing."

GROUP     clmgmtLicenseRTUGroup
DESCRIPTION
"This object group is mandatory for all devices that support Right to Use (RTU) licensing."

GROUP     clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
"This notification group is mandatory for all devices that support Right to use (RTU) licensing."

::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
OBJECTS         
  clmgmtNextFreeLicenseActionIndex,  
  clmgmtLicenseActionEntPhysicalIndex,  
  clmgmtLicenseActionTransferProtocol,  
  clmgmtLicenseServerAddressType,  
  clmgmtLicenseServerAddress,  
  clmgmtLicenseServerUsername,  
  clmgmtLicenseServerPassword,  
  clmgmtLicenseFile,  
  clmgmtLicenseStore,  
  clmgmtLicenseActionLicenseIndex,  
  clmgmtLicensePermissionTicketFile,  
  clmgmtLicenseRehostTicketFile,  
  clmgmtLicenseBackupFile,  
  clmgmtLicenseStopOnFailure,  
  clmgmtLicenseAction,  
  clmgmtLicenseActionState,  
  clmgmtLicenseJobQPosition,  
  clmgmtLicenseActionFailCause,  
  clmgmtLicenseActionStorageType,  
  clmgmtLicenseActionRowStatus,  
  clmgmtLicenseIndivActionState,  
  clmgmtLicenseIndivActionFailCause,  
  clmgmtLicenseAcceptEULA,  
  clmgmtLicenseEULAFile  
}
STATUS current
DESCRIPTION
"A collection of objects for performing license deployment
i.e., license installation, clear and revoke"
::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP
OBJECTS { clmgmtLicenseStoreName,
            clmgmtLicenseStoreTotalSize,
            clmgmtLicenseStoreSizeRemaining
        }
STATUS current
DESCRIPTION
"A collection of objects that provide information about
license storages in the device."
::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
OBJECTS { clmgmtDefaultLicenseStore }
STATUS current
DESCRIPTION
"A collection of objects that provide information about
device level licensing support information in the device."
::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP
OBJECTS { clmgmtLicenseFeatureName,
            clmgmtLicenseFeatureVersion,
            clmgmtLicenseType,
            clmgmtLicenseCounted,
            clmgmtLicenseValidityPeriod,
            clmgmtLicenseValidityPeriodRemaining,
            clmgmtLicenseExpiredPeriod,
            clmgmtLicenseMaxUsageCount,
            clmgmtLicenseUsageCountRemaining,
            clmgmtLicenseEULASTatus,
            clmgmtLicenseComments,
            clmgmtLicenseStatus
        }
STATUS current
DESCRIPTION
"A collection of objects that provide information about
licenses and its state."
::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP
OBJECTS

  {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureValidityPeriodRemaining,  
    clmgmtFeatureWhatIsCounted  
  }

STATUS current

DESCRIPTION

  "A collection of objects that provide information about licensable features in the software image."

::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP

OBJECTS

  {  
    clmgmtNextFreeDevCredExportActionIndex,  
    clmgmtDevCredEntPhysicalIndex,  
    clmgmtDevCredTransferProtocol,  
    clmgmtDevCredServerAddressType,  
    clmgmtDevCredServerAddress,  
    clmgmtDevCredServerUsername,  
    clmgmtDevCredServerPassword,  
    clmgmtDevCredExportFile,  
    clmgmtDevCredCommand,  
    clmgmtDevCredCommandState,  
    clmgmtDevCredCommandFailCause,  
    clmgmtDevCredStorageType,  
    clmgmtDevCredRowStatus  
  }

STATUS current

DESCRIPTION

  "A collection of objects for exporting device credentials from the device."

::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP

OBJECTS

  {  
    clmgmtLicenseUsageNotifEnable,  
    clmgmtLicenseDeploymentNotifEnable,  
    clmgmtLicenseErrorNotifEnable  
  }

STATUS current

DESCRIPTION

  "A collection of objects for controlling (enabling/disabling) license notifications to a management application."

::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS  
{  
  clmgmtLicenseExpired,  
  clmgmtLicenseExpiryWarning,  
  clmgmtLicenseUsageCountExceeded,  
  clmgmtLicenseUsageCountAboutToExceed  
}  
STATUS current  
DESCRIPTION  
"A collection of notifications related to license usage."  
::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP  
NOTIFICATIONS  
{  
  clmgmtLicenseInstalled,  
  clmgmtLicenseCleared,  
  clmgmtLicenseRevoked,  
  clmgmtLicenseEULAAccepted  
}  
STATUS current  
DESCRIPTION  
"A collection of notifications related to license deployment."  
::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP  
NOTIFICATIONS  
{ clmgmtLicenseNotEnforced }  
STATUS current  
DESCRIPTION  
"A collection of notifications related to license errors."  
::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP  
OBJECTS  
{  
  clmgmtLicenseStartDate,  
  clmgmtLicenseEndDate,  
  clmgmtFeatureStartDate,  
  clmgmtFeatureEndDate  
}  
STATUS current  
DESCRIPTION  
"A collection of objects that provide information specific to subscription licenses."  
::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP  
NOTIFICATIONS  
{  
  clmgmtLicenseSubscriptionExpiryWarning,  
  clmgmtLicenseSubscriptionExtExpiryWarning,  
  clmgmtLicenseSubscriptionExpired  
}  

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

clmgmtLicenseRTUGroup OBJECT-GROUP
OBJECTS { clmgmtLicensePeriodUsed, clmgmtFeaturePeriodUsed }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { clmgmtLicenseEvalRTUTransitionWarning, clmgmtLicenseEvalRTUTransition }

END

--%DNP%  MLC -Edit MLC
--%DNP%  MTF -TRUE MTF
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on Cisco devices.
-- August 2007, Ganesan Rajam
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
--******************************************************************************

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

{ status current
description
"A collection of notifications related to usage of subscription licenses."
definitions
::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup
object-group
object
clmgmtLicensePeriodUsed
clmgmtFeaturePeriodUsed

{ status current
description
"A collection of objects that provide information specific to Right to use (RTU) licenses."
definitions
::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup
notification-group
notifications
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition

{ status current
description
"A collection of notifications related to Right to use (RTU) licenses."
definitions
::= { ciscoLicenseMgmtGroups 14 }

END

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

ciscoImageLicenseMgmtMIB MODULE-IDENTITY
  LAST-UPDATED "200710160000Z"
  ORGANIZATION "Cisco Systems Inc."
  CONTACT-INFO
    "Cisco Systems
       Customer Service
       Postal: 170 W Tasman Drive
       San Jose, CA  95134
       USA
       Tel: +1 800 553 -NETS
       E-mail: cs-snmp@cisco.com"
  DESCRIPTION
    "The MIB module for managing the running image level
    of a Cisco device. Cisco's licensing mechanism provides
    flexibility to run a device on a chosen image level.
    This mechanism is referred to as image level licensing.
    Image level licensing leverages the universal image
    based licensing solution.

    The image level licensing mechanism works as follows -

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

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

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

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

This MIB should be used in 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."
ciscoImageLicenseMgmtMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 0 }

ciscoImageLicenseMgmtMIBObjects OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 1 }

ciscoImageLicenseMgmtMIBConform OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIB 2 }

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

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

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

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

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

cilmBootImageLevelEntry OBJECT-TYPE
SYNTAX        CilmBootImageLevelEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "An entry in the table for each module containing the
list of objects that define the configuration of next
boot level. The following information is specified by
the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.”
INDEX         {
            entPhysicalIndex,
            cilmModuleName
        }
 ::= { cilmBootImageLevelTable 1 }

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

cilmModuleName OBJECT-TYPE
SYNTAX        SnmpAdminString
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION   "This object is used as one of the two indices in
cilmBootImageLevelTable. This object indicates the module
name of the software package. There can be multiple
modules in an image performing specific functionality.
For example, in a wireless image there can be two modules
- a base image module and a wireless module."
::= { cilmBootImageLevelEntry 1 }

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

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

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

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

cilmCurrentLicenseStoreIndex OBJECT-TYPE
SYNTAX     Unsigned32
MAX-ACCESS read-only
STATUS      current
DESCRIPTION
  "This object indicates the license store index where the
  currently used license is stored. This object has the same
  value as clmgmtLicenseStoreIndex object and uniquely
  identifies an entry in clmgmtLicenseStoreInfoTable in
  CISCO-LICENSE-MGMT-MIB."
Note: The license store index can be '0' if no license is installed and device is running base image.

::= { cilmBootImageLevelEntry 5 }

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

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

::= { cilmBootImageLevelEntry 6 }

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

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

::= { cilmBootImageLevelEntry 7 }

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

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

::= { cilmBootImageLevelEntry 8 }
cilmImageLevelToLicenseMapTable OBJECT-TYPE
SYNTAX     SEQUENCE OF CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
    "This table contains the mapping between different
    image levels of each modules in the image and the
    license required to run the modules at a particular
    image level. This table can be used to identify the
different image levels and the appropriate licenses
required for each."
 ::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE
SYNTAX     CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
    "An entry in the table containing the following
    information.
    - The image levels at 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.

```plaintext
::= { ciscoImageLicenseMgmtMIBNotifs 1 }
```

-- Conformance

```
cilmModuleCompliances OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 1 }
```

```
cilmModuleGroups OBJECT IDENTIFIER
::= { ciscoImageLicenseMgmtMIBConform 2 }
```

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

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

-- Units of Conformance

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

```
cilmOperGroup OBJECT-GROUP
```
OBJECTS
  
  cilmImageLicenseImageLevel,
  cilmImageLicenseName,
  cilmImageLicensePriority

}  

STATUS current
DESCRIPTION  
"Objects for getting current image level configuration data."
::= { cilmModuleGroups 2 }

END

1.247 py3-chardet 4.0.0-r2

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1.248 felixge-httpsnoop 1.0.1

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1.249 libffi 3.3-r2

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1.270 lib-pq 1.9.0

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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, useConnectorNoticeHandler and // ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

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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1.271 go-jose 2.5.1

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1.272 py3-requests 2.25.1-r4

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1.273 go-sourcemap-sourcemap

2.1.3+incompatible

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1.274 py3-webencodings 0.5.1-r4

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```python
webencodings.mklabels
```

Regenerate the webencodings.labels module.
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

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

def generate(url):
    parts = ['
    "\n
    webencodings.labels
    ~~~~~~~~~~~~~~~
    Map encoding labels to their name.

    Labels for encoding labels to their name.

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

# XXX Do not edit!
# This file is automatically generated by mklabes.py
if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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from setuptools import setup, find_packages
import io
from os import path
import re

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

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
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        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
    ],
)
This is a Python implementation of the `WHATWG Encoding standard`_
<http://encoding.spec.whatwg.org/>_

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

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

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
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Classifier: Programming Language :: Python :: 3.5
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Classifier: Programming Language :: Python :: Implementation :: CPython
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Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
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python-webencodings

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* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
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The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

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1.275 golang-snappy 0.0.2

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

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1.279 sanitized-anchor-name 1.0.0

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@subheading END OF TERMS AND CONDITIONS

@page

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

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

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

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

Copyright (C) @var{yyyy}  @var{name of author}

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items---whatever suits your program.

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

The gettext-runtime package is partially under the LGPL and partially under the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

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

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

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

^L

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you distribute.

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   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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1.296 go-resiliency 1.2.0

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1.306 python-requests 2.25.0

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1.307 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:

```ruby
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

Use with queueing

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

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

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

    require 'stalker'

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

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

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

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

Anatomy of a clock file
-----------------------

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

The handler typically looks like this:

    handler { |job| enqueue_your_job(job) }

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

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

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

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

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

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

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

You can also use blocks to do more complex checks:

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

In production
--------------

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

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

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

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-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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* /opt/cola/permits/1215783807_1634571130.71/0/clockwork-0-2-2-2-gem/data-tar-gz/README.md

1.308 distlib 0.3.1

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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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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

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

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

Thanks to:

- Rajiv Abraham
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- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
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1.309 hashicorp-go-plugin 1.4.0

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

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

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1.324 go-runtime 1.15.6

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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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test-package.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 SSLCA CertificateFile.#

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

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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1.332 toml 0.3.1
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1.334 fsnotify 1.4.7
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1.335 google-go-cmp 0.5.4

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1.336 mattetti-filebuffer 1.0.1

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1.337 shadow 4.8.1-r0

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1.342 google-api-go-client 0.33.0

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

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\(|\)\)* All rights reserved\.)*
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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
    }
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
      t.Errorf("%v: license header not at the top", path)
    }
})
1.343 certifi 2020.12.5
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This package contains a modified version of ca-bundle.crt:

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

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

1.344 golang-lru 0.5.4
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src/flopen.c

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man/fparseln.3bsd
src/fparseln.c
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include/bsd/readpassphrase.h
man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
src/readpassphrase.c
src/reallocarray.c
src/strlcat.c
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src/hash/md5.c
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Files:
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