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1.1 go-runewidth v0.0.2

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1.3 prometheus-client v0.8.0

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1.4 goleveldb

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553a641470496b2327abcac10b36396bd98e45c9

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1.10 golang-protobuf-extensions v1.0.0

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1.11 pyparsing 2.4.7

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1.16 toml 0.10.2

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1.17 appdirs 1.4.4

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1.18 golang-protobuf-extensions v1.0.1

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1.19 python-webencodings 0.5.1

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1.20 golang-snappy

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1.21 colorama 0.4.4

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1.22 errors v0.8.0

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1.23 python-certifi 2020.12.5

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)

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WinJS

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1.28 x-text v0.3.0

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1.29 packaging 20.8

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1.30 libc-utils 0.7.2-r3

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1.31 zap 1.7.1

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1.33 docker v1.13.1

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description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

redirect_from:

- /ucp/user-management/permission-levels/

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

Default permission level Description	
:----- :-----	
`No Access`	The user can't view any resource, like volumes, networks, images, or containers.
`View Only`	The user can view volumes, networks and images, but can't create any containers.
`Restricted Control`	The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host.
`Full Control`	The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

****NOTE**:** Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

Team permission levels

Teams allow you to define fine-grain permissions to containers that have the label `com.docker.ucp.access.label` applied to them.

There are four permission levels:

Team permission level	Description

:----- :-----	

`No Access`	The user can't view containers with this label.
`View Only`	The user can view but can't create containers with this label.
`Restricted Control`	The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host.
`Full Control`	The user can view and create containers with this label, without any restriction.

Where to go next

* [Create and manage users](create-and-manage-users.md)

* [Create and manage teams](create-and-manage-teams.md)

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keywords: authorization, authentication, users, teams, UCP

title: Permission levels

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Administrator users

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- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

Default permission level	Description

|

:----- :-----	

`No Access`	The user can't view any resource, like volumes, networks, images, or containers.
`View Only`	The user can view volumes, networks and images, but can't create any containers.
`Restricted Control`	The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host.
`Full Control`	The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.

If a user has Restricted Control or Full Control default permissions, they can create resources without labels, and only the user and Admins can see and access the resources. Default permissions also affect ability for a user to access things that can't have labels, images and nodes.

Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

Team permission level Description	
:----- :-----	

`No Access`	The user can't view containers with this label.
`View Only`	The user can view but can't create containers with this label.
`Restricted Control`	The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host.
`Full Control`	The user can view and create containers with this label, without any restriction.

Where to go next

- * [Create and manage users](create-and-manage-users.md)
- * [Create and manage teams](create-and-manage-teams.md)
- * [Docker Reference Architecture: Securing Docker Datacenter and Security Best Practices](https://success.docker.com/KBase/Docker_Reference_Architecture%3A_Securing_Docker_Datacenter_and_Security_Best_Practices)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

title: License your installation

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

{: .with-border}

License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

{: .with-border}

Click **Upload License** for the changes to take effect.

Where to go next

* [Install UCP](../install/index.md)

* [Install UCP offline](../install/install-offline.md)

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

title: License Docker Trusted Registry

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

* When upgrading to a new major version,

* When your current license expires.

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Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your license.

License your installation

Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.

Click the **Apply new license** button, and upload your new license file.

Where to go next

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[Install DTR](index.md)

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description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

title: Permission levels

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa.

When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

- * Manage users across Docker Datacenter,
- * Manage DTR repositories and settings,
- * Manage the whole UCP cluster.

Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

Repository operation	read	read-write	admin
:----- :--- :----- :-----			
View/ browse	x	x	x
Pull			
	x	x	x
Push		x	x
Delete tags		x	x
Edit description			x
Set public or private			x
Manage user access			x
Delete repository			

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

Overall permissions

Here's an overview of the permission levels available in DTR:

- * Anonymous users: Can search and pull public repositories.
- * Users: Can search and pull public repos, and create and manage their own repositories.
- * Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
- * Team admin: Everything a team member can do, and can also add members to the team.
- * Organization admin: Everything a team admin can do, can create new

teams, and add members to the organization.

- * DDC admin: Can manage anything across UCP and DTR.

Where to go next

- * [Authentication and authorization](index.md)

title: License your installation

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

- * When upgrading to a new major version,

- * When your current license expires.

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Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.

Click the **Apply new license** button, and upload your new license file.

Where to go next

- *

- [Use your own TLS certificates](use-your-own-tls-certificates.md)

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description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

redirect_from:

- /docker-trusted-registry/user-management/permission-levels/

title: Permission levels

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

Administrator users

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- * Manage DTR repositories and settings,
- * Manage the whole UCP cluster.

Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

| Repository operation | read | read-write | admin |

|:-----:|:---:|:-----:|:-----:|

|

View/ browse | x | x | x |

| Pull | x | x | x |

| Push | | x | x |

| Delete tags | | x | x |

| Edit description | | | x |

| Set public or private | | | x |

| Manage user access | | | x |

| Delete repository | | |

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

Overall permissions

Here's an overview of the permission levels available in DTR:

- * Anonymous users: Can search and pull public repositories.
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- * DDC admin: Can manage anything across UCP and DTR.

Where to go next

* [Authentication and authorization](index.md)

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

redirect_from:

- /docker-trusted-registry/license/

- /docker-trusted-registry/install/license

title: License Docker Trusted Registry

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

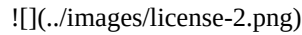
- * When upgrading to a new major version,
- * When your current license expires.

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Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.



Click

the **Apply new license** button, and upload your new license file.

Where to go next

* [Install DTR](index.md)

* [Install DTR offline](install-dtr-offline.md)

description: Learn how to license your Docker Universal Control Plane installation.

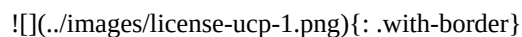
keywords: Universal Control Plane, UCP, install, license

title: License UCP

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

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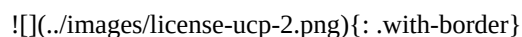
Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.



License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.



Click **Upload License** for the changes to take effect.

Where to go next

- * [Install UCP](index.md)
- * [Install UCP offline](install-offline.md)

description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

title: Permission levels in DTR

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

Administrator users

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- * Manage DTR repositories and settings,
- * Manage the whole UCP cluster.

Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

Repository operation	read	read-write	admin
View/ browse	x	x	x
Pull	x	x	x
Push		x	x
Delete tags		x	x
Edit description			x
Set public or private			x
Manage user access			x
Delete repository			

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

Overall permissions

Here's an overview of the permission levels available in DTR:

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repositories.

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- * Team admin: Everything a team member can do, and can also add members to the team.
- * Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
- * DDC admin: Can manage anything across UCP and DTR.

Where to go next

* [Authentication and authorization](index.md)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

redirect_from:

- /ucp/installation/license/

title: License UCP

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

Click **Upload License** for the changes to take effect.

Where to go next

* [Install UCP](install-production.md)

* [Install UCP offline](install-offline.md)

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

Default permission level	Description
`No Access`	The user can't view any resource, like volumes, networks, images, or containers.
`View Only`	The user can view volumes, networks and images, but can't create any containers.
`Restricted Control`	The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host.
`Full Control`	The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

****NOTE**:** Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`.

The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

Team permission level	Description

`No Access`	The user can't view containers with this label.

`View Only`	The user can view but can't create containers with this label.

`Restricted Control`	The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host.

`Full Control`	The user can view and create containers with this label, without any restriction.

Where to go next

- * [Create and manage users](create-and-manage-users.md)
- * [Create and manage teams](create-and-manage-teams.md)

1.34 ordered-set 4.0.2

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1.35 inf v0.9.0

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1.36 pq v1.0.0

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```
// +build go1.10
```

```
package pq
```

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

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

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

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

```

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

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

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

```

1.37 purell v1.1.0

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1.38 go-sql-driver-mysql v1.4.0

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1.40 six 1.16.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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1.41 urllib3 1.26.2

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* HTTPS patch (which inspired HTTPSConnectionPool)

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

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

* georgemarshal <<https://github.com/georgemarshal>>

* Bugfixes, Improvements and Test

coverage

* Thomas Kluyver <thomas@kluyver.me.uk>

* Python 3 support

* brandon-rhodes <<http://rhodesmill.org/brandon>>

* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>

* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>

- * Support for explicitly closing pooled connections
- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params
- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite
- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.
- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.
- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions
- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification
- * Cory Benfield
- <<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.
- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL
- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition
- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support
- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields
- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters
- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Shivan Sornarajah <github@sornars.com>

- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>

- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>

- * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>

- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>

- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>

- * App Engine environment tests.

- * Documentation re-write.

- * John Krauss <https://github.com/talos>

- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <https://github.com/Disassem>

- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>

- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>

- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>

- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.

- * Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.

- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>

- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>

- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>

- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>

- * Python 2.6 fixes; pyflakes and pep8 compliance

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 - * Benno Rice <benno@jeamland.net>
 - * Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.

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

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

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

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

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

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

 - * [Your name or handle] <[email or website]>
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1.42 python-requests 2.25.0

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1.47 pep517 0.9.1

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1.51 tenacity 8.0.1

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1.52 pep517 0.11.0

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1.53 python-certifi 2020.11.08

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.54 idna 13.0.0

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1.55 python-certifi 2021.05.30

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.56 python-certifi 2020.12.05

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1.57 google-cloud-go v0.56.0

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```

```
package cloud
```

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

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

```
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
}
```

```
if ext := filepath.Ext(path);
ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
```

```

// .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

```

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1.58 python-pip 21.2.3

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002		
PSF	yes			
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>
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1.63 urfave-cli 1.20.0

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* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/util/SamlUtils.java
*
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* /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java
```

1.64 influxdata-kapacitor 1.5.8-rc0

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"``
```

}

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

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

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Go support for leveled logs, analogous to

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Support for streaming Protocol Buffer messages for the Go language (golang).

https://github.com/matttproud/golang_protobuf_extensions

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DNS library in

Go

<http://miek.nl/posts/2014/Aug/16/go-dns-package/>

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LevelDB key/value database in Go

<https://github.com/syndtr/goleveldb>

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gosnappy - a fork of code.google.com/p/snappy-go

<https://github.com/syndtr/gosnappy>

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go-zookeeper - Native ZooKeeper client for Go

<https://github.com/samuel/go-zookeeper>

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

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1.65 robot-telemetry_proto 0.0.0- 20210520062046-a73bb180cba4

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

```
module CISCO-IMAGE-LICENSE-MGMT-MIB {  
  
    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";  
    prefix "cisco-image-license-mgmt-mib";  
  
    import ENTITY-MIB {  
        prefix "entity-mib";  
    }  
  
    import SNMP-FRAMEWORK-MIB {  
        prefix "snmp-framework";  
    }  
  
    import ietf-yang-smiv2 {  
        prefix "smiv2";  
    }  
  
    organization
```

"Cisco Systems Inc.";

contact

"Cisco Systems

Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

description

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

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

The image level licensing mechanism works as follows -

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

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity

license on the device.

- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

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

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

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

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

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

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

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

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

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

```
typedef LicenseNameList
```



```

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

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

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

  container ciscoImageLicenseMgmtMIBObjects {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";

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

  container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

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

```

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

reference

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

smiv2:defval "false";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";

}

}

container cilmBootImageLevelTable {

description

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

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

list cilmBootImageLevelEntry {

key "entPhysicalIndex cilmModuleName";

description

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

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

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

leaf entPhysicalIndex {

type leafref {

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

}

}

```

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

```

```

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

```

```

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

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

```

```

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

```

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

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

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";
```

```
}
```

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

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

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
```

```
}
```

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

```
CISCO-LICENSE-MGMT-MIB.
```

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

```
smiv2:max-access "read-only";
```

```
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
```

```
}
```

```
leaf cilmNextBootLicenseIndex {
```

```

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

```

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

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";

```

```

}
}
}

```

```

container cilmImageLevelToLicenseMapTable {
description
"This table contains the mapping between different
image levels of each modules in the
image and the

```

```

license required to run the modules at a particular
image level. This table can be used to identify the
different image levels and the appropriate licenses
required for each.";

```

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

```

```

list cilmImageLevelToLicenseMapEntry {
key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
description
"An entry in the table containing the following
information.

```

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

```

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

```

```

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

```

```

leaf cilmModuleName {
type leafref {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

are three licenses l1, l2 and l3 in the ascending order of

priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";

```
}  
}  
}  
}
```

notification cilmBootImageLevelChanged {

description

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

smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

container object-1 {

leaf entPhysicalIndex {

type leafref {

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

```
}  
}
```

leaf cilmModuleName {

type leafref {

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

```
}  
}
```

leaf cilmCurrentImageLevel {

type leafref {

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

```
}  
}  
}
```

```

container object-2 {

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

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

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

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

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

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

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

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

smiv2:alias "cilmModuleCompliances" {

```



```

smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

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

}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#   Name <email address>

```

```

Paul Borman <borman@google.com>
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--

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--

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

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

jnxLicenseMIB MODULE-IDENTITY
LAST-UPDATED "201007090000Z"
ORGANIZATION "Juniper Networks, Inc."
CONTACT-INFO

"Juniper Technical Assistance Center
Juniper Networks, Inc.
1194 N. Mathilda Avenue
Sunnyvale, CA 94089
E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

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

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

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

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

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

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

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

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

```
jnxLicenseKeys OBJECT-TYPE
```

```

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

-- Feature Listing Table

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

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

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

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

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

```

jnxLicenseFeatureDescr OBJECT-TYPE

SYNTAX

DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature Name"

::= { jnxLicenseFeatureListEntry 3 }

jnxLicenseFeatureLicenseId OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Feature License Id"

::= { jnxLicenseFeatureListEntry 4 }

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Used"

::= { jnxLicenseFeatureListEntry 5 }

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Licenses Installed"

::= { jnxLicenseFeatureListEntry 6 }

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Licenses Needed"

::= { jnxLicenseFeatureListEntry 7 }

-- *****

-- License configuration parameters

-- *****

jnxLicenseRenewBeforExpiration OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License renew lead time before expiration in days."

```

::= { jnxLicenseSettings 1 }

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

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

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

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

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

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

```

```

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

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

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

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

module CISCO-LICENSE-MGMT-MIB {

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

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

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

```

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

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

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

```
organization  
"Cisco Systems Inc.";
```

```
contact  
"Cisco Systems  
Customer Service
```

```
Postal: 170 W Tasman Drive
```

```
San Jose, CA 95134
```

```
USA
```

```
Tel: +1 800 553 -NETS
```

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

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

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

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

UDI

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

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device identifiers in the system. For example, the license can be locked to the UDI value of one of the devices

in the system. Locking a license to an UDI guarantees that the license will not be moved to a device with a different UDI.

NON-NODE LOCKED LICENSE:

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

METERED LICENSE:

Metered

licenses are valid for limited period of time

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

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

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

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

EXTENSION LICENSE:

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

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal

as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

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

COUNTED LICENSE:

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

UNCOUNTED LICENSE:

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

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

IMAGE LEVEL LICENSING:

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

FEATURE LEVEL LICENSING:

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

There is a one-to-one relationship between

a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

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

LICENSE FILE:

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

DEVICE CREDENTIALS:

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

REHOST:

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

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

PERMISSION TICKET:

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

REHOST TICKET:

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

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

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

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

ticket as proof of revocation to

Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action.

Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

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

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

action.

STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

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

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

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

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

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

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

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

```
revision 2008-11-21 {
description
"This version of the MIB adds support for subscription
licensing. Subscription licenses provide software
enforcement for a licensed feature for a fixed calendar
period. The revisions are:
o Updated clmgmtLicenseType object to support the following three
new types of licenses:
paidSubscription
evaluationSubscription
```

```

        extensionSubscription
    o Added following objects to clmgmtLicenseInfoTable
        clmgmtLicenseStartDate
        clmgmtLicenseEndDate
    o Added following objects to clmgmtLicensableFeatureTable
        clmgmtFeatureStartDate
        clmgmtFeatureEndDate
    o Added the following notifications
        clmgmtLicenseSubscriptionExpiryWarning
        clmgmtLicenseSubscriptionExtExpiryWarning
        clmgmtLicenseSubscriptionExpired
    o Added the following conformance groups
        clmgmtLicenseSubscriptionGroup
        clmgmtLicenseSubscriptionUsageNotifGroup
    The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

```

```

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

```

```

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

```

```

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

```

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

```
typedef ClmgmtLicenseActionState {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "pending" {
            value "2";
        }
        enum "InProgress" {
            value "3";
        }
    }
}
```



```

enum "successful" {
    value "4";
}
enum "partiallySuccessful" {
    value "5";
}
enum "failed" {
    value "6";
}
}
description
"The state of license action execution.

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

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

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

successful(4)     - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
                  partially successful. Management
                  application can query additional MIB
                  objects to know what is successful
                  and what has failed. These 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.";

}

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

container clmgmtLicenseConfiguration {
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

leaf clmgmtNextFreeLicenseActionIndex {
type uint32 {
range "1..4294967295";
}
description
"This object contains appropriate value for
clmgmtLicenseActionIndex that can be used to create
an entry in clmgmtLicenseActionTable. The management application
should read this object first and then use this as the

value for clmgmtLicenseActionIndex to avoid collisions when creating entries in clmgmtLicenseActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.1";
  }
}

container clmgmtLicenseDeviceInformation {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

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

container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";

  leaf clmgmtLicenseUsageNotifEnable {
    type boolean;

```

```

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

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

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

```

```

container clmgmtLicenseActionTable {

```

description

"A table for invoking license management actions. Management application must create a row in this table to trigger any of the license management actions. The following are different actions that can be executed using this table.

1. install
2. clear
3. processPermissionTicket
4. regenerateLastRehostTicket
5. backup
6. generateEULA

Refer to the description of `clmgmtLicenseAction` for more information on what these actions do on the device.

Once the request completes, the management application should

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

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2";

list `clmgmtLicenseActionEntry` {
key "clmgmtLicenseActionIndex";

description

"An entry for each action that is being executed or was executed recently. The management application executes an action

by creating this entry. This can be done in the following 2 methods

1. CREATE-AND-GO method

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

2. CREATE-AND-WAIT method

Management application sets `clmgmtLicenseActionRowStatus` to `createAndWait(5)` to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set

just only that object. Once all the required objects are set to valid values, management application triggers action

execution by setting `clmgmtLicenseActionRowStatus` to `active(1)`.

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

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

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

1. Installing a license

The following MIB objects need to be set for installing a license

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

`clmgmtLicenseActionEntPhysicalIndex` need not be set explicitly for license installs. License itself 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.
clmgtLicenseBackupFile
- h. clmgtLicenseAction

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. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicenseFile
- g. clmgtLicenseEULAFile
- h. clmgtLicenseAction

For any action, if clmgtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgtLicenseServerAddressType
- b. clmgtLicenseServerAddress
- c. clmgtLicenseServerUsername
- d. clmgtLicenseServerPassword

Entry can be deleted

except when clmgtLicenseAction 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 clmgtLicenseActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object uniquely identifies a row in  
    clmgtLicenseActionTable. The management application should choose  
    this value by reading clmgtNextFreeLicenseActionIndex  
    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 clmgtNextFreeLicenseActionIndex  
    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 clmgtLicenseActionEntPhysicalIndex
```

```

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

```

```

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

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

```

```

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

```

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

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

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

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

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

```

smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

```

```

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

```

```

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

```

```

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

```

```

smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

```

```

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

```

```

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

```

```

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates

```

the file where all the licenses in

the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action.";

```
smiv2:defval "";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";  
}
```

leaf clmgmtLicenseStopOnFailure {

type boolean;

description

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action.";

```
smiv2:defval "false";  
smiv2:max-access "read-write";  
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";  
}
```

leaf clmgmtLicenseAction {

type enumeration {

enum "noOp" {

value "1";

}

enum "install" {

value "2";

}

enum "clear" {

value "3";

}

enum "processPermissionTicket" {

value "4";

}

enum "regenerateLastRehostTicket" {

value "5";

}

enum "backup" {

value "6";

}

enum "generateEULA" {

value "7";

}

}

description

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission ticket and generates and exports rehost ticket.
regenerateLastRehostTicket(5)	Generates and exports the last generated rehost ticket.
backup(6)	Backs up all the licenses installed currently onto a backup store.
generateEULA(7)	Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file.";
smiv2:defval "noOp"; smiv2:max-access "read-write"; smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15"; }	
leaf clmgmtLicenseActionState { type cisco-license-mgmt-mib:ClmgmtLicenseActionState; description "This object indicates the state of this license action."; smiv2:max-access "read-only"; smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16"; }	
leaf clmgmtLicenseJobQPosition { type uint32; description "This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By	

reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to

defer its license back up action to a later time. This

object will return a value of 0 if the action is not in pending(2) state.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";

}

leaf clmgmtLicenseActionFailCause {

type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;

description

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";

}

leaf clmgmtLicenseActionStorageType {

type snmpv2-tc:StorageType;

description

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row.";

smiv2:defval "volatile";

smiv2:max-access "read-write";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";

}

leaf clmgmtLicenseActionRowStatus {

type snmpv2-tc:RowStatus;

description

"This object indicates the the status of this table entry.

Once the entry status is set to active(1), the associated

entry cannot be modified until the action completes

(clmgmtLicenseConfigCommandStatus is set to a value

other than inProgress(3)). Once the action completes

the only operation possible after this is to delete

the row. It is recommended that the management application

should delete entries in this table after reading

the result. In order to prevent old entries from

clogging the table, entries will be aged out, but an

entry will never be deleted within 5 minutes of

```

        completion";

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

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

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

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

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

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

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";

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

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

```
leaf clmgmtLicenseNumber {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object indicates the sequence number of this license
    in the list of licenses on which the action
is executed.
```

For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file.";

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
}
```

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

```
leaf clmgmtLicenseIndivActionFailCause {
```

```

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

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

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

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

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

  leaf clmgmtLicenseStoreName {
    type snmp-framework:SnmpAdminString {
      length "0..255";
    }
    description
      "This object indicates the name of the license store

```

```

        within the device. It is a file in device's local file
        system i.e., either on a local disk or flash or some
        other storage media. For example, the value of this
        object can be 'disk1:lic_store_1.txt' or
        'flash:lic_store_2.txt';
        smiv2:max-access "read-only";
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
    }

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

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

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

    list
    clmgmtLicenseDeviceInfoEntry {
        key "entPhysicalIndex";
        description

```

```

"An entry in clmgmtLicenseDeviceInfoTable. Each entry
contains device level licensing information for a device.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

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

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

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

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

    leaf entPhysicalIndex {
      type leafref {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

leaf clmgmtLicenseFeatureVersion {
  type snmp-framework:SnmpAdminString {
    length "0..128";
  }
  description
    "This object indicates the version of the feature that is
    using or can use this license. Examples of feature version

```

```

are: '1.0', '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

leaf clmgmtLicenseType {
  type enumeration {
    enum "demo" {
      value "1";
    }
    enum "extension"
  {
    value "2";
  }
    enum "gracePeriod" {
      value "3";
    }
    enum "permanent" {
      value "4";
    }
    enum "paidSubscription" {
      value "5";
    }
    enum "evaluationSubscription" {
      value "6";
    }
    enum "extensionSubscription" {
      value "7";
    }
    enum "evalRightToUse" {
      value "8";
    }
    enum "rightToUse" {
      value "9";
    }
    enum "permanentRightToUse" {
      value "10";
    }
  }
  description
  "This object identifies type of license. Licenses may have
  validity period defined in terms of time duration that the
  license is valid for or it may be defined in terms of actual
  calendar dates. Subscription licenses are licenses that have
  validity period
  defined in terms of calendar dates.

```

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.
gracePeriod(3) - Grace period license.
permanent(4) - permanent license, the license has no
expiry date.

paidSubscription(5) - Paid subscription licenses are the
licenses

which are purchased by customers. These
licenses have a start date and end date
associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are
the trial licenses. These licenses
are not locked and it can be obtained
only once for an UDI. They are valid

based on calendar days. These licenses
have a start date and an end date
associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of

the product.

This is a Right To Use license which is not in
evaluation mode for a limited time.";

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

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

```
leaf clmgmtLicenseValidityPeriod {
```

```

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

```

```

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

```

```

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

```

```

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

```

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

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

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

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

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

leaf clmgmtLicenseStatus {
    type enumeration {
        enum "inactive" {
            value "1";
        }
        enum "notInUse" {
            value "2";
        }
        enum "inUse" {

```

```

    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
"This object represents status of the license.

```

```

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

```

```

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

```

```

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

```

```

}

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

leaf clmgmtFeatureValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period remaining before

```

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

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

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

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

```
leaf clmgmtFeatureStartDate {

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

```
leaf clmgmtFeatureEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license end date of the feature.
```

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

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}
```

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

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

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

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";
```

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

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values

are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets `clmgtDevCredExportActionStatus` 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 `clmgtDevCredExportActionStatus` to `active(1)`.

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

The status of action execution can be known by querying

`clmgtDevCredCommandState`. 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 `clmgtDevCredCommandFailCause`.

Entry can be deleted except when `clmgtLicenseAction` 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 clmgtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object uniquely identifies a row in  
    clmgtDevCredExportActionTable. The management application  
    chooses this value by reading  
    clmgtNextFreeDevCredExportActionIndex 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 `clmgtNextFreeDevCredExportActionIndex` again and retry with the new value for this object.";

`smiv2:max-access "not-accessible";`

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}

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

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

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

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

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description

```

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

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

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

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

description

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

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

description

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

```

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

```

```

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

```

Command	Remarks

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

```

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

```

```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {

```

```

        value "1";
    }
    enum "unknownError" {
        value "2";
    }
    enum "transferProtocolNotSupported"
{
        value "3";
    }
    enum "fileServerNotReachable" {
        value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
        value "5";
    }
    enum "invalidFile" {
        value "6";
    }
}
description
"This object indicates the the reason for device
credentials export operation failure.

```

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

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

unknownError(2) - reason for failure is unknown,
operation failed, no

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
valid

invalidFile(6) - The target file specified is not valid.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

leaf clmgmtDevCredStorageType {

type snmpv2-tc:StorageType;

description

```

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

```

```

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

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

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

    container object-1 {

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

        leaf clmgmtFeatureIndex {
            type leafref {

```

```

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

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

container object-2 {

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

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

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

notification clmgmtLicenseExpiryWarning {
  description
  "This notification is sent when a license is about to
  expire. This notification will go out multiple times.
  First notification goes out when expiry day is 4 weeks
  ahead, second notification when expiry day is 3 weeks

```

```

    ahead, third notification
when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

container object-1 {

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

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

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

container object-2 {

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

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

```



```

    }

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

  container object-3 {

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

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

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

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

    container object-1 {

      leaf entPhysicalIndex {

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

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

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

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

container object-2 {

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

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

```

```

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

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

  container object-3 {

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

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

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

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

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mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

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

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

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

container object-5 {

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

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

```

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

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

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

    container object-1 {

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

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

      leaf clmgmtLicenseIndex {
        type leafref {

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

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

container object-2 {

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

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

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

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

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    }
}

container object-3 {

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

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

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

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

container object-4 {

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

    leaf clmgmtLicenseStoreUsed {
        type leafref {

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

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

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

container object-5 {

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

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

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

```



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}

container object-6 {

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

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

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

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

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

    container object-1 {

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

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mib:entPhysicalIndex";

    }
    }

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

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

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

container object-2 {

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

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

    leaf clmgmtLicenseIndex {

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

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

container object-3 {

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

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

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

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

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    }
}

container
object-4 {

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

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

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

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

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

    container object-1 {

        leaf entPhysicalIndex {

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```

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

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

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

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

container object-2 {

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

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

```

```

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

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

container object-3 {

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

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

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

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

```

```

    }
  }
}

container object-4 {

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

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

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

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

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

  container object-1 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

container object-2 {

```

```

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

```

```

  leaf clmgmtLicenseStoreUsed {

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

```



```

    }

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

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

  container object-3 {

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

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

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

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

```

```

mib:clmgmtLicenseType";
    }
  }
}

container object-4 {

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

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

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

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

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

  container object-1 {

```

```

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

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

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

container object-2 {

  leaf entPhysicalIndex {

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

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

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

```

```

    }
  }
}

```

```

notification clmgmtLicenseNotEnforced {
  description
    "This notification is sent when a license does not
    exist for a feature, but the feature is a mandatory
    feature and it should run. This notification will be
    sent out periodically
    to indicate that there is no
    license installed for this feature and it needs to
    be done as soon as possible.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

```

```

  container object-1 {

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

```

```

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

```

```

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

```

```

  container object-2 {

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

```

```

mib:entPhysicalIndex";
    }
}

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

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

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

    container object-1 {

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

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

```

```

    }

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

  container object-2 {

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

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

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

  container object-3 {

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

    leaf

```

```

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

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

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

  container object-1 {

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

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

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

```

```

    }
  }
}

container object-2 {

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

  leaf clmgmtFeatureIndex {
    type leafref {

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

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

container object-3 {

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

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

```



```

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

```

```

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

```

```

container object-1 {

```

```

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

```

```

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

```

```

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

```

```

container object-2 {

```

```

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

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mib:entPhysicalIndex";
    }
}

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

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

container object-3 {

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

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

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

```

```

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

  container object-1 {

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

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

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

  container object-2 {

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

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

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```

mib:clmgmtFeatureIndex";
    }
}

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

    container object-3 {

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

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

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

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

        container object-1 {

```

```

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

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

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

container object-2 {

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

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

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

```

```

    }
  }
}

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

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

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

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

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

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

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

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

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

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

}
// Copyright 2015 Google Inc.
//
// Licensed under the Apache License, Version 2.0 (the "License");

```

```
// you may not use this file except in compliance with the License.
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****
```

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

IMPORTS

```
OBJECT-TYPE,
MODULE-IDENTITY,
Unsigned32,
NOTIFICATION-TYPE
    FROM SNMPv2-SMI
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF
TEXTUAL-CONVENTION,
TruthValue
    FROM SNMPv2-TC
SnmAdminString
    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 explain 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 advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advservicesk9 based image.
- Manufacturing installs advservices and advsecurity license on the device.
- This device will run all features that are part of the base advservices license.

- No upgrades available for advipservices license.

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

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

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

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

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

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 separated by the ',' character.

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

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

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

- License store index for the next boot license.

- License index of the next boot license."

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

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

cilmModuleName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object is used as one of the two indices in
cilmBootImageLevelTable. This object indicates the module
name of the software package. There can be multiple
modules in an image performing specific functionality.

For example, in a wireless image there can be two modules

- a base image module and a wireless module."

```
::= { cilmBootImageLevelEntry 1 }
```

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the current image level that
the module is running."

```
::= { cilmBootImageLevelEntry 2 }
```

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the configured image level of the module for the next boot.

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

::= { `cilmBootImageLevelEntry` 3 }

`cilmNextBootImageLevel` OBJECT-TYPE

SYNTAX `BootImageLevel`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot

image level is determined based

on the availability of required license."

::= { `cilmBootImageLevelEntry` 4 }

`cilmCurrentLicenseStoreIndex` OBJECT-TYPE

SYNTAX `Unsigned32`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as `clmgmtLicenseStoreIndex` object and uniquely identifies an entry in `clmgmtLicenseStoreInfoTable` in CISCO-LICENSE-MGMT-MIB.

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

::= { `cilmBootImageLevelEntry` 5 }

`cilmCurrentLicenseIndex` OBJECT-TYPE

SYNTAX `Unsigned32`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as `clmgmtLicenseIndex`

and

uniquely identifies an entry in `clmgmtLicenseInfoTable` in CISCO-LICENSE-MGMT-MIB.

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

installed and device is running base image."
::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

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

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

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

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

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

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

INDEX {
 entPhysicalIndex,
 cilmModuleName,
 cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

 cilmImageLicenseMapIndex Unsigned32,
 cilmImageLicenseImageLevel BootImageLevel,
 cilmImageLicenseName LicenseNameList,
 cilmImageLicensePriority Unsigned32

}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running
index used to identify an entry
of this table."

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created
in this table for every module and image level
combination."

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

DEFVAL { false }

::= { ciscoImageLicenseMgmtMIBObjects 3 }

-- Notification control

cilmNotifCntl OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

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

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

REFERENCE

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

DEFVAL { false }

::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE

OBJECTS {
 cilmCurrentImageLevel,
 cilmConfiguredBootImageLevel
}

STATUS current

DESCRIPTION

"This notification is triggered when next boot image level is changed in the management entity. The current and configured image level are indicated by cilmCurrentImageLevel and cilmConfiguredBootImageLevel objects respectively."

::= { ciscoImageLicenseMgmtMIBNotifs 1 }

-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 1 }

cilmModuleGroups OBJECT IDENTIFIER

::= { ciscoImageLicenseMgmtMIBConform 2 }


```

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

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

```

-- Units of Conformance

```

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,
        cilmNextBootImageLevel,
        cilmCurrentLicenseStoreIndex,
        cilmCurrentLicenseIndex,
        cilmNextBootLicenseStoreIndex,
        cilmNextBootLicenseIndex,
        cilmEULAAccepted,
        cilmImageLevelChangedNotif
    }

    STATUS      current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

```

```

cilmOperGroup OBJECT-GROUP
    OBJECTS      {
        cilmImageLicenseImageLevel,
        cilmImageLicenseName,
        cilmImageLicensePriority
    }

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

```

```

cilmNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS { cilmBootImageLevelChanged }
  STATUS      current
  DESCRIPTION
    "Objects for getting current image level configuration data."
    ::= { cilmModuleGroups 3 }

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

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

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

```

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"

ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

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

DESCRIPTION

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

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

UDI

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

NODE LOCKED LICENSE:

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

NON-NODE LOCKED LICENSE:

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

METERED LICENSE:

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

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period.

They are used only when there are no permanent, extension or grace period licenses for a feature.

User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

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

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

EXTENSION LICENSE:

Extension licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal.

These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses.

These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license.

These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on

the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

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

UNCOUNTED LICENSE:

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

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

IMAGE LEVEL LICENSING:

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

FEATURE LEVEL LICENSING:

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

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

LICENSE LINE:

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

LICENSE FILE:

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

part and it contains one or more license lines.

DEVICE CREDENTIALS:

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

REHOST:

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

PERMISSION TICKET:

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

REHOST TICKET:

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

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

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

STEPS TO INSTALL A LICENSE:

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

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE

& EXPORT EULA:

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

1. Specifies the license file path that has licenses to be

- installed
- 2. Specifies the EULA file path where EULA need to be exported to
- 3. Executes the generate EULA action.

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

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

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

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

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:
permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU) licensing. The revisions are:

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

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription licensing. Subscription licenses provide software enforcement for a licensed feature for a fixed calendar period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
 - paidSubscription
 - evaluationSubscription
 - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicenseStartDate
 - clmgmtLicenseEndDate
- o Added following
 - objects to clmgmtLicensableFeatureTable
 - clmgmtFeatureStartDate
 - clmgmtFeatureEndDate
- o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups
 - clmgmtLicenseSubscriptionGroup
 - clmgmtLicenseSubscriptionUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200610030000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 543 }

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 0 }

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 1 }

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIB 2 }

clmgmtLicenseConfiguration OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 1 }

clmgmtLicenseInformation

OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 2 }

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 3 }

clmgmtLicenseNotifObjects OBJECT IDENTIFIER

::= { ciscoLicenseMgmtMIBObjects 4 }

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A unique value, for each license in the managed system.

It is not necessary to have values assigned contiguously.

The value for each license must remain constant

at least from one re-initialization of the entity's

network management system to the next re-initialization"

SYNTAX Unsigned32 (1..4294967295)

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This textual convention is an extension of the ClmgmtLicenseIndex

convention. The latter defines a greater than zero value

used to identify a license in the managed system.

This

extension permits the additional value of zero. The value

zero is object-specific and must therefore be defined as

part of the description of any object which uses this

syntax. Examples of the usage of zero might include

situations where license was not present or unknown."

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

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

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

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

- none(1) - action is not yet scheduled to be executed.
- pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.
- inProgress(3) - action execution has started and is in progress.
- successful(4) - action has completed successfully.
- partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB objects to know what is successful and what has failed. These 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

clmgtLicenseActionState. 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 clmgtLicenseActionFailCause. If the status of the action is partiallySuccessful(5), results of individual licenses can be queried from clmgtLicenseActionResultTable.

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. clmgtLicenseActionTransferProtocol
- b. clmgtLicenseServerAddressType
- c. clmgtLicenseServerAddress
- d. clmgtLicenseServerUsername
- e. clmgtLicenseServerPassword
- f. clmgtLicenseFile
- g. clmgtLicenseStore
- h. clmgtLicenseStopOnFailure
- i. clmgtLicenseAcceptEULA
- j. clmgtLicenseAction

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

clmgtLicenseStore 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 clmgtLicenseStore 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. clmgtLicenseActionEntPhysicalIndex
- b. clmgtLicenseActionLicenseIndex
- c. clmgtLicenseStore
- d. clmgtLicenseAction

3. Revoking a license

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

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

4. Regenerate last rehost ticket

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

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

5. Save all licenses to a backup storage

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

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

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

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername

- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

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

INDEX { clmgmtLicenseActionIndex }
 ::= { clmgmtLicenseActionTable 1 }

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

clmgmtLicenseActionIndex OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this
object is not set, the license action will be executed on
the master device. Note: This object need not be set if
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile
4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files
required for the action are in device's local file system."

DEFVAL { none }

::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

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

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

DEFVAL

{ "" }

::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtLicenseActionTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 6 }

clmgmtLicenseServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from

an ftp/sftp/scp server.

This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 7 }

clmgmtLicenseFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the location of the license file on the server identified by clmgmtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgmtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 8 }

clmgmtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgmtLicenseStoreIndex of the license store to use within the device. The license store can be a local disk or flash. A device can have more than one license stores. If this object is not set, the license will be stored in the default license store as exposed by clmgmtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {
 noOp(1),
 install(2),
 clear(3),
 processPermissionTicket(4),
 regenerateLastRehostTicket(5),
 backup(6),
 generateEULA(7)
}

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.
processPermissionTicket(4)	Processes thee permission

ticket and generates and
exports rehost ticket.

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

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

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

DEFVAL { noOp }
::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action
in the license action job queue that is maintained
internally. Only actions in pending(2) state will
be put in the queue until they are executed. By
reading this object, the management

application can make

intelligent decision on whether to execute another
action that it is planning on. For example, if there
is already a license clear action in the queue in
pending(2) state, management application can choose to
defer its license back up action to a later time. This
object will return a value of 0 if the action is not in
pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

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

clmgmtLicenseActionStorageType OBJECT-TYPE

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

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion"
 ::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object indicates whether the End User License Agreement needed for installing the licenses is accepted."

true(1) - EULA is read and accepted

false(2) - EULA is not accepted

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

DEFVAL { false }

::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to

be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 22 }

-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

ClmgmtLicenseActionResultEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseActionResultTable. Each entry contains result of the action for a single license."

These entries are created immediately after action execution when the action involves multiple licenses. These entries get automatically deleted when the corresponding entry in clmgmtLicenseActionTable is deleted."

```
INDEX      {
            clmgmtLicenseActionIndex,
            clmgmtLicenseNumber
          }
::= { clmgmtLicenseActionResultTable 1 }
```

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

clmgmtLicenseNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates the sequence number of this license in the list of licenses on which the action is executed. For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file."

```
::= { clmgmtLicenseActionResultEntry 1 }
```

clmgmtLicenseIndivActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of action on this individual license."

```
::= { clmgmtLicenseActionResultEntry 2 }
```

clmgmtLicenseIndivActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for action failure on this individual license"

```
::= { clmgmtLicenseActionResultEntry 3 }
```

-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about all the license stores allocated on the device."

::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseStoreInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseStoreInfoTable. Each entry contains information about a license store allocated on the device"

INDEX {
entPhysicalIndex,
clmgmtLicenseStoreIndex
}

::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {

clmgmtLicenseStoreIndex

Unsigned32,

clmgmtLicenseStoreName SnmpAdminString,

clmgmtLicenseStoreTotalSize Unsigned32,

clmgmtLicenseStoreSizeRemaining Unsigned32

}

clmgmtLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license store within the device."

::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the license store within the device. It is a file in device's local file system i.e., either on a local disk or flash or some other storage media. For example, the value of this object can be 'disk1:lic_store_1.txt' or 'flash:lic_store_2.txt'"

```
::= { clmgmtLicenseStoreInfoEntry  
2 }
```

clmgmtLicenseStoreTotalSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of bytes that are allocated to the license store."

```
::= { clmgmtLicenseStoreInfoEntry 3 }
```

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of bytes still remaining to be used for new license installations in the license store."

```
::= { clmgmtLicenseStoreInfoEntry 4 }
```

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects that provide licensing related information

at the device level. Entries will exist

only for entities that support licensing. For example, if it is a stand alone device and supports licensing, then there will be only one entry in this table. If it is stackable switch then there will be multiple entries with one entry for each device in the stack."

```
::= { clmgmtLicenseInformation 2 }
```

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

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
 clmgmtDefaultLicenseStore Unsigned32
 }

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

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains information about all the licenses
 installed on the device."
 ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseInfoTable. Each entry contains
 information about a license installed on the device. This
 entry gets created when

a license is installed successfully.

Management application can not create these entries directly, but will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

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

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

clmgmtLicenseStoreUsed OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry of the license store used."

```
::= { clmgmtLicenseInfoEntry
1 }
```

clmgmtLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license within the device."

::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE

SYNTAX INTEGER {
demo(1),
extension(2),
gracePeriod(3),
permanent(4),
paidSubscription(5),
evaluationSubscription(6),
extensionSubscription(7),
evalRightToUse(8),
rightToUse(9),
permanentRightToUse(10)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

demo(1)

- demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no
expiry date.

paidSubscription(5) - Paid subscription licenses are the
licenses

which are purchased by customers. These
licenses have a start date and end date
associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are
the trial licenses. These licenses
are node locked and it can be obtained
only once for an UDI. They are valid
based on calendar days. These licenses
have a start date and an end date

associated with them and are issued
once per UDI.

extensionSubscription(7)- Extension subscription licenses are
similar to evaluation subscription
licenses but these licenses are issued
based on customer request. There are
no restrictions on the number of
licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU)
license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured
and is valid for the lifetime of the product.
This is a Right To Use license which is not in
evaluation mode for a limited time."

::=

{ clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the license is counted
license.

true(1) - counted license

false(2) - uncounted license"

::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period the license is valid for.

This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will return 0 for other license types."

::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the time period remaining before the license expires or transitions to rightToUse(9) license. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8). The object will contain 0 for other license types."

::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry."

::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that

can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

inactive(1),

notInUse(2),

inUse(3),

expiredInUse(4),

expiredNotInUse(5),

usageCountConsumed(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4) - license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object
indicates the start date for a subscription
license. It is optional for subscription 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

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

```
INDEX {
    entPhysicalIndex,
    clmgmtFeatureIndex
}
```

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

clmgmtFeatureIndex Unsigned32,

clmgmtFeatureName SnmpAdminString,

```

    clmgmtFeatureVersion          SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted     SnmpAdminString,
    clmgmtFeatureStartDate         DateAndTime,
    clmgmtFeatureEndDate
        DateAndTime,
    clmgmtFeaturePeriodUsed        Unsigned32
}

```

clmgmtFeatureIndex OBJECT-TYPE

```

SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object uniquely identifies a licensable feature in
    the device."
 ::= { clmgmtLicensableFeatureEntry 1 }

```

clmgmtFeatureName OBJECT-TYPE

```

SYNTAX      SnmpAdminString (SIZE (0..128))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'"
 ::= { clmgmtLicensableFeatureEntry 2 }

```

clmgmtFeatureVersion OBJECT-TYPE

```

SYNTAX      SnmpAdminString (SIZE (0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the version of the licensable
    feature in the device. Examples
of feature versions
    are: '1.0' or '2.0'"
 ::= { clmgmtLicensableFeatureEntry 3 }

```

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

```

SYNTAX      Unsigned32
UNITS       "seconds"
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the time period remaining before
    the feature's license expires or transitions. This object is
    applicable only if clmgmtLicenseType of the license used by

```

this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

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

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE
(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this

feature have a valid end date then this object will contain an
octet string of length 0."
::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

will get an error and the

process of reading this object and entry creation needs to be
repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

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

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

1. CREATE-AND-GO method

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

2. CREATE-AND-WAIT method

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

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

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

failure can
be retrieved from clmgmtDevCredCommandFailCause.

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

INDEX { clmgmtDevCredExportActionIndex }
::= { clmgmtDevCredExportActionTable 1 }

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

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtDevCredExportActionTable. The management application
chooses this value by reading
clmgmtNextFreeDevCredExportActionIndex while creating an
entry in this table. If an entry already exists with this
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

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

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

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

allowed.

The format of this address depends on the value of the
clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying
a file to/from an ftp/sftp/scp server.

This object must be set when the
clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
sftp(8). Reading it returns a zero-length string for
security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs
to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

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

Command	Remarks

noOp(1)	No operation will be performed.

```

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

clmgmtDevCredCommandState OBJECT-TYPE

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

clmgmtDevCredCommandFailCause OBJECT-TYPE

```
SYNTAX      INTEGER {
                none(1),
                unknownError(2),
                transferProtocolNotSupported(3),
                fileServerNotReachable(4),
                unrecognizedEntPhysicalIndex(5),
                invalidFile(6)
            }
```

```
MAX-ACCESS   read-only
STATUS       current
DESCRIPTION
    "This object indicates the the reason for device
    credentials export operation failure.
```

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

none(1) - action execution has not started yet.
 If the action is completed and the
 action is successful, then also
 none(1) is returned to indicate that
 there are no errors.
 unknownError(2) - reason for failure is unknown,
 operation failed, no operation is
 performed
 transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
 given is not supported.
 fileServerNotReachable(4) - file server is not reachable.
 unrecognizedEntPhysicalIndex(5) - entPhysicalIndex
 is not
 valid
 invalidFile(6) - The target file specified is not valid."
 ::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

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

clmgmtDevCredRowStatus OBJECT-TYPE

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

clmgmtDevCredExportFile is a mandatory object to be
 set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired

clmgmtLicenseExpiryWarning

clmgmtLicenseUsageCountExceeded

clmgmtLicenseUsageCountAboutToExceed

clmgmtLicenseSubscriptionExpiryWarning

clmgmtLicenseSubscriptionExtExpiryWarning

clmgmtLicenseSubscriptionExpired

clmgmtLicenseEvalRTUTransitionWarning

clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled

clmgmtLicenseCleared

clmgmtLicenseRevoked

clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

clmgmtLicenseNotEnforced"

```

DEFVAL      { true }
::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
STATUS       current
DESCRIPTION
    "This notification is sent, when a feature license
    expires. This notification will be sent continuously
    every week even after the expiry to alert the management
    application."
::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureValidityPeriodRemaining
            }
STATUS       current
DESCRIPTION
    "This notification is sent when a license is about to

    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry."
::= { ciscoLicenseMgmtMIBNotifs 2 }

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

```



```
::= { ciscoLicenseMgmtMIBNotifs 3 }
```

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseMaxUsageCount,  
    clmgmtLicenseUsageCountRemaining,  
    clmgmtFeatureWhatIsCounted,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

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

```
::= { ciscoLicenseMgmtMIBNotifs 4 }
```

clmgmtLicenseInstalled NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

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

```
::= { ciscoLicenseMgmtMIBNotifs 5 }
```

clmgmtLicenseCleared NOTIFICATION-TYPE

```
OBJECTS      {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

STATUS current

DESCRIPTION

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

```
::= { ciscoLicenseMgmtMIBNotifs 6 }
```

clmgmtLicenseRevoked NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseType,
                clmgmtLicenseComments
            }
STATUS
    current
DESCRIPTION
    "This notification is sent when a license is revoked
    successfully."
::= { ciscoLicenseMgmtMIBNotifs 7 }
```

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
STATUS        current
DESCRIPTION
    "This notification is sent when a user accepts End User
    License Agreement (EULA) for a license."
::= { ciscoLicenseMgmtMIBNotifs 8 }
```

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

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

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
STATUS        current
```

DESCRIPTION

"This notification is sent when a subscription license of a feature is about to expire. This notification will be sent as per the following schedule:

Once a week for the last eight weeks

Once a day for the last week

Once a hour for the last day"

::= { ciscoLicenseMgmtMIBNotifs 10 }

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS

current

DESCRIPTION

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached."

::= { ciscoLicenseMgmtMIBNotifs 11 }

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureEndDate
}

STATUS current

DESCRIPTION

"This notification will be sent after a subscription license of a feature completely expires. It will be sent once a day after the license has completely expired"

::= { ciscoLicenseMgmtMIBNotifs 12 }

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,
 clmgmtFeatureValidityPeriodRemaining
}

STATUS current

DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU) license transition is about to happen. The first notification will be sent 10 days before the transition and second

```

        notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

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

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 2 }

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

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

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE

```

```

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

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

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

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

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

GROUP      clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
    "This notification group is mandatory for all devices that
    support Right to use (RTU) licensing."
::= { ciscoLicenseMgmtCompliances 2 }

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeLicenseActionIndex,

```

```

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

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

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
    OBJECTS      { clmgmtDefaultLicenseStore }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information about

```

device level licensing support information in the device."
::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtLicenseFeatureName,
 clmgmtLicenseFeatureVersion,
 clmgmtLicenseType,
 clmgmtLicenseCounted,
 clmgmtLicenseValidityPeriod,
 clmgmtLicenseValidityPeriodRemaining,
 clmgmtLicenseExpiredPeriod,
 clmgmtLicenseMaxUsageCount,
 clmgmtLicenseUsageCountRemaining,
 clmgmtLicenseEULAStatus,
 clmgmtLicenseComments,
 clmgmtLicenseStatus
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licenses and its state."
::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP

OBJECTS {
 clmgmtFeatureName,
 clmgmtFeatureVersion,

 clmgmtFeatureValidityPeriodRemaining,
 clmgmtFeatureWhatIsCounted
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about
licensable features in the software image."
::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP

OBJECTS {
 clmgmtNextFreeDevCredExportActionIndex,
 clmgmtDevCredEntPhysicalIndex,
 clmgmtDevCredTransferProtocol,
 clmgmtDevCredServerAddressType,
 clmgmtDevCredServerAddress,
 clmgmtDevCredServerUsername,
 clmgmtDevCredServerPassword,
 clmgmtDevCredExportFile,

```

        clmgmtDevCredCommand,
        clmgmtDevCredCommandState,
        clmgmtDevCredCommandFailCause,

        clmgmtDevCredStorageType,
        clmgmtDevCredRowStatus
    }
STATUS      current
DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS     {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseExpired,
    clmgmtLicenseExpiryWarning,
    clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license usage."
::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseInstalled,
    clmgmtLicenseCleared,
    clmgmtLicenseRevoked,
    clmgmtLicenseEULAAccepted
}
STATUS      current
DESCRIPTION

```



```

    "A collection of notifications related to license deployment."
    ::= { ciscoLicenseMgmtGroups 9 }

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

clmgtLicenseSubscriptionGroup OBJECT-GROUP
OBJECTS      {
    clmgtLicenseStartDate,
    clmgtLicenseEndDate,
    clmgtFeatureStartDate,
    clmgtFeatureEndDate
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    subscription licenses."
    ::= { ciscoLicenseMgmtGroups 11 }

clmgtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgtLicenseSubscriptionExpiryWarning,
    clmgtLicenseSubscriptionExtExpiryWarning,
    clmgtLicenseSubscriptionExpired
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to usage of subscription
    licenses."
    ::= { ciscoLicenseMgmtGroups 12 }

clmgtLicenseRTUGroup OBJECT-GROUP
OBJECTS      {
    clmgtLicensePeriodUsed,
    clmgtFeaturePeriodUsed
}
STATUS      current
DESCRIPTION
    "A collection of objects that provide information specific to
    Right to use (RTU) licenses."
    ::= { ciscoLicenseMgmtGroups 13 }

clmgtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP

```

```

NOTIFICATIONS {
    clmgmtLicenseEvalRTUTransitionWarning,
    clmgmtLicenseEvalRTUTransition
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
::= { ciscoLicenseMgmtGroups 14 }

END

```

```
--%DNP% MLC -Edit MLC
```

```
--%DNP% MTF -TRUE MTF
```

1.66 influxdb 1.8.4

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1.67 beego 1.12.3

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1.68 mgo 0.0.0-20181015135952- eeefdec b41b8

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mgo - MongoDB driver for Go

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BSON library for Go

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1.69 pep517 0.12.0

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1.70 google-cloud-go v0.82.0

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1.80 x-time-rate

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1.82 bolt v1.3.0

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

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Support for streaming Protocol Buffer messages for the Go language (golang).

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1.84 easyjson

3fdea8d05856a0c8df22ed4bc71b3219245e448

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1.85 fsnotify

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1.86 go-autorest

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1.87 go-codec

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1.88 go-humanize

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1.89 go-jmespath v0.2.2

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1.90 go-restful v1.2

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1.91 go-rootcerts

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1.93 go-zookeeper

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1.96 x-crypto

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1.98 prometheus

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1.102 grpc-go v1.2.1

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1.104 juju-ratelimit

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```
// License information for the exposed API.  
//  
// For more information: http://goo.gl/8us55a#licenseObject  
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    Name string `json:"name,omitempty"`  
    URL   string `json:"url,omitempty"`  
}  
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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#   Name <email address>
```

```
# Keep the list alphabetically sorted.
```

```
Andreas Litt <andreas.litt@gmail.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Burcu Dogan <jbd@google.com>
Dave Day <djd@golang.org>
David Sansome <me@davidsansome.com>
David Symonds <dsymonds@golang.org>
Filippo Valsorda <hi@filippo.io>
Glenn Lewis <gmlewis@google.com>
Ingo Oeser <nightlyone@googlemail.com>
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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

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goproperties - properties file decoder for Go

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.108 pflag

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1.109 prometheus

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1.118 mitchellh-mapstructure

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1.129 yaml 2.0.0

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1.130 prometheus-client 0.9.0

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Source: https://github.com/prometheus/client_golang/

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1.133 mapstructure 1.3.3

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1.134 protobuf 0.5

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1.136 azure-sdk-for-go 61.5.0

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1.137 flux 0.7.0

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1.138 paho.mqtt.golang 1.0.0

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1.139 google-cloud-go 0.86.0

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package compute_test

import (
    "context"

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

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

    // TODO: Use client.
```

```

-
= c
}

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

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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

```

```

defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct
    fields.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

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

```

```

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

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

```

```

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.List(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

// TODO: Use resp.
_ = resp
}

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

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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//

```

```

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

package compute

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

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

var
    newLicensesClientHook clientHook

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

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)

```

```

Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*computepb.Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest,
...gax.CallOption) (*computepb.Policy, error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*computepb.Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) (*computepb.LicensesListResponse,
error)
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```
type LicensesClient struct {
```

// The internal transport-dependent client.

```
internalClient internalLicensesClient
```

// The call options for this service.

```
CallOptions *LicensesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicensesClient) Close() error {
```

```
    return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
    c.internalClient.setGoogleClientInfo(keyval...)
}
```

// Connection returns a connection to the API service.

//

// Deprecated.

```
func (c *LicensesClient) Connection() *grpc.ClientConn {
```

```
    return c.internalClient.Connection()
```

```

}

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

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

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

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

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

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```

```

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

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

    //
    The http client.
    httpClient *http.Client

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

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

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

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

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

```



```

}
}

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

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

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

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

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

    baseUrl.RawQuery = params.Encode()

```

```

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

return rsp, unm.Unmarshal(buf, rsp)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(),
    req.GetLicense())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

return rsp, unm.Unmarshal(buf, rsp)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {

```

```

params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

return rsp, unm.Unmarshal(buf, rsp)
}

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

```

```

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
req.GetProject())

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

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Operation{}

return rsp, unm.Unmarshal(buf, rsp)
}

// List retrieves the list of licenses available
in the specified project. This method does not get any licenses that belong to other projects, including licenses
attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this
method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This

```

resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) (*computepb.LicensesListResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true, EmitUnpopulated: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }
```

```
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

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

```
    baseUrl.RawQuery = params.Encode()
```

```
    httpReq, err := http.NewRequest("GET", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
```

```
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
```

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

```

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicensesListResponse{}

return rsp, unm.Unmarshal(buf, rsp)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    httpReq,
err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

```

```

defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

return rsp, unm.Unmarshal(buf, rsp)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

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

```



```

defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

return rsp, unm.Unmarshal(buf, rsp)
}

```

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

package compute_test

import (

"context"

compute "cloud.google.com/go/compute/apiv1"

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

)

func ExampleNewLicenseCodesRESTClient() {

ctx := context.Background()

c, err := compute.NewLicenseCodesRESTClient(ctx)

if err != nil {

// TODO: Handle error.

}

defer c.Close()

```

// TODO: Use
client.
_ = c
}

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

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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package compute

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

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

var
    newLicenseCodesClientHook clientHook

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

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

```



```

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

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

// Wrapper methods routed to the internal client.

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

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

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req

```

```

*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

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

    // The http client.
    httpClient *http.Client

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

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

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

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

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

//

```

```

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

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

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

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    m := protojson.MarshalOptions{AllowPartial: true, EmitUnpopulated: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    httpReq, err := http.NewRequest("GET", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v :=

```

```

range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

return rsp, unm.Unmarshal(buf, rsp)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

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

```

```

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

return
rsp, unm.Unmarshal(buf, rsp)
}

```

1.140 golang-jwt 3.2.0

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1.141 go-uuid v1.2.0

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1.142 golang 1.13.6

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```
# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
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# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
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# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
#   http://code.google.com/legal/individual-cla-v1.0.html
#   http://code.google.com/legal/corporate-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual's name <submission email address>
```


Individual's name <submission email address> <email2> <emailN>

An entry with multiple email addresses specifies that the
first address should be used in the submit logs and
that the other addresses should be recognized
as the
same person when interacting with Gerrit.

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1.143 golang 1.11

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1.144 google-cloud-go v0.65.0

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```
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```

```
package cloud
```

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

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

```
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }

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

```

// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

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

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

```

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1.145 golang 1.18.4

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#
#   http://code.google.com/legal/individual-cla-v1.0.html
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#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual's name <submission email address>
#   Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
```

that the other addresses should be recognized
as the
same person when interacting with Gerrit.

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1.146 robot-telemetry_proto 0.0.0-

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--
```

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

```
IMPORTS
```

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

DisplayString
FROM SNMPv2-TC;

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

"Juniper Technical Assistance Center
Juniper Networks, Inc.
1133 Innovation Way
Sunnyvale, CA 94089
E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

REVISION "201612150000Z" -- Dec 15, 2016

DESCRIPTION

"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"

REVISION "201906170000Z" -- Jun 17, 2019

DESCRIPTION

"Deprecated jnxLicenseKeys."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

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

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

jnxLicenseKeys OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS   read-only

```

STATUS deprecated
 DESCRIPTION "***** THIS OBJECT IS DEPRECATED *****"
 This object is deprecated,
 it displays all the license keys
 in the system."

::= { jnxLicenseInstallEntry 5 }

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

-- Feature Listing Table

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

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

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

jnxLicenseFeatureId OBJECT-TYPE
 SYNTAX INTEGER
 MAX-ACCESS not-accessible
 STATUS current

DESCRIPTION "Feature Id to point an entry in this table"
::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE

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

jnxLicenseFeatureDescr OBJECT-TYPE

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

jnxLicenseFeatureLicenseId OBJECT-TYPE

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

jnxLicenseFeatureLicenseUsed OBJECT-TYPE

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

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE

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

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE

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

-- *****

```

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

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

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

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

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

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

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

```

```

        feature identified by jnxLicenseFeatureName is about to expire"
 ::= { jnxLicenseNotifications 2 }

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

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

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

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

END

/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-LICENSE-MGMT-MIB.mib
 */
/*
 * This YANG module has been generated by smidump 0.5.0:
 *
 * smidump -f yang CISCO-LICENSE-MGMT-MIB

```

```

*
* Do not edit. Edit the source file instead!
*/

module CISCO-LICENSE-MGMT-MIB {

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

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

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

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

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

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

    organization
        "Cisco Systems Inc.";

    contact
        "Cisco Systems
        Customer Service

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

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

```


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

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

UDI

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

NODE LOCKED LICENSE:

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

NON-NODE LOCKED LICENSE:

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

METERED LICENSE:

Metered

licenses are valid for limited period of time

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

EULA:

End User License Agreement.

EVALUATION LICENSE:

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

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited

time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product.

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

EXTENSION LICENSE:

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

GRACE PERIOD LICENSE:

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

PERMANENT LICENSE:

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

COUNTED LICENSE:

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

UNCOUNTED LICENSE:

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

License can be enforced at the image level or at the feature level and

this MIB module supports both.

IMAGE LEVEL LICENSING:

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

FEATURE LEVEL LICENSING:

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

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

LICENSE LINE:

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

LICENSE FILE:

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

DEVICE CREDENTIALS:

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

REHOST:

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

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

PERMISSION TICKET:

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

REHOST TICKET:

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

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

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

STEPS TO INSTALL A LICENSE:

To install a license, the management application

1. Retrieves device credentials of the device.
2. Communicates

with Cisco's licensing portal to get

the license file, uses device credentials to identify the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

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

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

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

5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of the new device to identify the device, gets license file.
6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

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

STEPS TO BACKUP ALL LICENSES:

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

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

STEPS TO GENERATE & EXPORT EULA:

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

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

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

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

This MIB module also defines various notifications that

will be triggered to asynchronously notify the management application of any critical events.

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

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

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

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

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

- o Added the following conformance groups
 - clmgmtLicenseRTUGroup
 - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1.";
}

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

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

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

```

network management system to the next re-initialization";
}

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

```

```

typedef ClmgmtLicenseTransferProtocol {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "local" {
            value "2";
        }
        enum "tftp" {
            value "3";
        }
        enum "ftp" {
            value "4";
        }
        enum "rcp" {
            value "5";
        }
        enum "http" {
            value "6";
        }
        enum "scp" {
            value "7";
        }
        enum "sftp" {
            value "8";
        }
    }
    description
        "The transfer protocol that should be used for copying files
        when performing license management. When

```


the protocol is
 set to local(2), local file system (flash or disk) is used.
 Different agents may support different transfer protocols
 and the management application is expected to some how determine
 which protocol is supported and use.";
 }

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

description

"The state of license action execution.

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

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

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

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was
 partially successful. Management
 application can query additional MIB
 objects to know what is successful

and what has failed. These 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.";
}

```

```

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

    container clmgmtLicenseConfiguration {
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";

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

    container clmgmtLicenseDeviceInformation {
        smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";

        leaf clmgmtNextFreeDevCredExportActionIndex {
            type uint32;
            description
            "This object contains appropriate value for
            clmgmtDevCredExportActionIndex that can be used to create
            an entry in clmgmtDevCredExportActionTable. The management
            application should read this object first and then use this
            as the value for clmgmtDevCredExportActionIndex to avoid
            collisions when creating entries in
            clmgmtDevCredExportActionTable. Following this approach does
            not guarantee collision free row creation, but will reduce

```

the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time.

In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated.";

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

```
container clmgmtLicenseNotifObjects {
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
```

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

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

```

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4.2";
}

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

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

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

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

```

1. CREATE-AND-GO method

Management application sets `clmgtLicenseActionRowStatus` 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 `clmgtLicenseActionRowStatus` 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 `clmgtLicenseActionRowStatus` to `active(1)`.

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

The status of action execution can be known by querying `clmgtLicenseActionState`. 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 `clmgtLicenseActionFailCause`. If the status of the action is `partiallySuccessful(5)`, results of individual licenses can be queried from `clmgtLicenseActionResultTable`.

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. `clmgtLicenseActionTransferProtocol`

- 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 within a stack), then value of clmgmtLicenseStore is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following

MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol

- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g.

clmgmtLicenseBackupFile

- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted

except when clmgmtLicenseAction is set

to pending(2). All entries are volatile and are cleared on agent reset.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1";

```

leaf clmgmtLicenseActionIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a row in
    clmgmtLicenseActionTable. The management application should choose
    this value by reading clmgmtNextFreeLicenseActionIndex
    while creating an entry in this table. If an entry already
    exists with this index, the creation of the entry will not
    continue and error will be returned. The management application
    should read the value of clmgmtNextFreeLicenseActionIndex
    again and retry with the new value for this object.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.1";
}

```

```

leaf clmgmtLicenseActionEntPhysicalIndex
{
  type entity-mib:PhysicalIndexOrZero;
  description
    "This object represents the entPhysicalIndex of the device
    where the action is being executed. This object is mainly
    used in devices where one device is acting as a master and
    rest of the devices as slaves. The master device is
    responsible for SNMP communication with the management
    application. Examples include stackable switches, devices
    with route processor and line card configuration. If this
    object is not set, the license action will be executed on
    the master device. Note: This object need not be set if
    there is a stand alone device";
  smiv2:defval "0";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.2";
}

```

```

leaf clmgmtLicenseActionTransferProtocol {
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;
  description
    "This object represents the transfer protocol to be used
    when copying files as specified in the following objects.
    1. clmgmtLicenseFile
    2. clmgmtLicensePermissionTicketFile
    3. clmgmtLicenseRehostTicketFile
    4. clmgmtLicenseBackupFile

```

Note: This object need not be set if the all the files

```

    required for the action are in device's local file system.";
    smiv2:defval "none";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.3";
}

leaf clmgmtLicenseServerAddressType {
    type inet-address:InetAddressType;
    description
        "This object indicates the transport type of the
        address contained in clmgmtLicenseServerAddress object.
        This must be set when clmgmtLicenseActionTransferProtocol
        is not none(1) or local(2).";
    smiv2:defval
"unknown";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.4";
}

leaf clmgmtLicenseServerAddress {
    type inet-address:InetAddress;
    description
        "This object indicates the ip address of the server from
        which the files must be read or written to if
        clmgmtLicenseActionTransferProtocol is not none(1) or
        local(2).

        All bits as 0s or 1s for clmgmtLicenseServerAddress are not
        allowed.

        The format of this address depends on the value of the
        clmgmtLicenseServerAddressType object";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.5";
}

leaf clmgmtLicenseServerUsername {
    type snmp-framework:SnmpAdminString {
        length "0..96";
    }
    description
        "This object indicates the
remote user name for accessing
        files via ftp, rcp, sftp or scp protocols. This object must
        be set when the clmgmtLicenseActionTransferProtocol is
        ftp(4), rcp(5), scp(7) or sftp(8). If
        clmgmtLicenseActionTransferProtocol is rcp(5), the remote

```

```

    username is sent as the server username in an rcp command
    request sent by the system to a remote rcp server.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.6";
}

leaf clmgmtLicenseServerPassword {
    type snmp-framework:SnmpAdminString {
        length "0..96";
    }
    description
        "This object indicates the password used by ftp, sftp or
        scp for copying a file to/from an ftp/sftp/scp server.
        This object must be set when the
        clmgmtLicenseActionTransferProtocol is ftp(4) or scp(7)
        or sftp(8). Reading it returns
        a zero-length string for
        security reasons.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.7";
}

leaf clmgmtLicenseFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object represents the location of the license file
        on the server identified by clmgmtLicenseServerAddress. This
        object MUST be set to a valid value before or concurrently
        with setting the value of the clmgmtLicenseAction object to
        install(2). For other operations, the value of this
        object is not considered, it is irrelevant.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.8";
}

leaf clmgmtLicenseStore {
    type uint32;
    description
        "This object represents the clmgmtLicenseStoreIndex
        of the
        license store to use within the device. The license store
        can be a local disk or flash. A device can have more than
        one license stores. If this object is not set, the license

```

```

    will be stored in the default license store as exposed by
    clmgmtDefaultLicenseStore object.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.9";
}

leaf clmgmtLicenseActionLicenseIndex {
    type cisco-license-mgmt-mib:ClmgmtLicenseIndexOrZero;
    description
        "This object indicates the the license index of the license
        that is the subject of this action. This is used for
        identifying a license for performing actions specific to
        that license. This object need to be set only if
        clmgmtLicenseAction is set to clear(4). The value of this
        object is same as the clmgmtLicenseIndex
object in
        clmgmtLicenseInfoEntry for license that is subject of this
        action.";
    smiv2:defval "0";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.10";
}

leaf clmgmtLicensePermissionTicketFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object indicates the file name of the permission
        ticket. This object need to be set only if
        clmgmtLicenseAction is set to processPermissionTicket(4)
        or regenerateLastRehostTicket(5) actions. The permission
        ticket is obtained from Cisco licensing portal to revoke
        a license. The management application must set this object
        to valid value before invoking the action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.11";
}

leaf clmgmtLicenseRehostTicketFile {
    type snmp-framework:SnmpAdminString {
        length "0..255";
    }
    description
        "This object indicates the file where the rehost ticket

```

```

generated by the device need to be exported to. The rehost
ticket is generated as a result of processPermissionTicket
and regenerateLastRehostTicket actions. After generating
the rehost ticket, the device exports the rehost ticket
contents to this file. This object need to be set only
if clmgmtLicenseAction is set to processPermissionTicket(4)
or regenerateLastRehostTicket(5) actions.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.12";
}

leaf clmgmtLicenseBackupFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates
the file where all the licenses in
the device need to be backed up. This object need to be set
only if clmgmtLicenseAction is set to backup(6) and the
management application must set the value of this object
to valid value before invoking action.";
smiv2:defval "";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.13";
}

leaf clmgmtLicenseStopOnFailure {
  type boolean;
  description
    "This object indicates whether the license action should
stop if the action on a license fails. This object is
applicable only if there are more than one licenses
involved in an action.";
smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.14";
}

leaf clmgmtLicenseAction {
  type enumeration {
    enum "noOp" {
value "1";
    }
    enum "install" {
value "2";

```

```

}
enum "clear" {
    value "3";
}
enum "processPermissionTicket" {
    value "4";
}
enum "regenerateLastRehostTicket" {
    value "5";
}
enum "backup" {
    value "6";
}
enum "generateEULA" {
    value "7";
}
}
description
"This object indicates the the command/action to be executed.

```

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.
install(2)	Installs the license.
clear(3)	Clears the license.

```

    processPermissionTicket(4)
Processes thee permission
                                ticket and generates and
                                exports rehost ticket.

    regenerateLastRehostTicket(5) Generates and exports the
                                last generated rehost
                                ticket.

    backup(6)                    Backs up all the licenses
                                installed currently onto a
                                backup store.

    generateEULA(7)              Checks whether the licenses
                                in the license file need EULA
                                acceptance and uploads the
                                needed EULA contents to a file.";
smiv2:defval "noOp";
smiv2:max-access "read-write";

```



```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.15";
}

```

```

leaf clmgmtLicenseActionState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of this license action.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.16";
}

```

```

leaf clmgmtLicenseJobQPosition {
  type uint32;
  description
    "This object represents the position of the action
    in the license action job queue that is maintained
    internally. Only actions in pending(2) state will
    be put in the queue until they are executed. By
    reading this object, the management application can make
    intelligent decision on whether to execute another
    action that it is planning on. For example, if there
    is already a license clear action in the queue in
    pending(2) state, management application can choose to

```

```

defer its license back up action to a later time. This
  object will return a value of 0 if the action is not in
  pending(2) state.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.17";
}

```

```

leaf clmgmtLicenseActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for this license action
    failure. The value of this object is valid only when
    clmgmtLicenseActionState is failed(6).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.18";
}

```

```

leaf clmgmtLicenseActionStorageType {
  type snmpv2-tc:StorageType;
  description
    "This object indicates the storage type for this conceptual
    row. Conceptual rows having the value 'permanent' need not
    allow write-access to any columnar objects in the row.";

```

```

smiv2:defval "volatile";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.19";
}

```

```

leaf clmgmtLicenseActionRowStatus {
  type snmpv2-tc:RowStatus;
  description
    "This object indicates the the status of this table entry.
    Once the entry status is set to active(1), the associated
    entry cannot be modified until the action completes
    (clmgmtLicenseConfigCommandStatus is set to a value
    other than inProgress(3)). Once the action completes
    the only operation possible after this is to delete
    the row. It is recommended that the management application
    should delete entries in this table after reading
    the result. In order to prevent old entries from
    clogging the table, entries will be aged out, but an
    entry will never be deleted within 5 minutes of
    completion";

```

```

smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.20";
}

```

```

leaf clmgmtLicenseAcceptEULA {
  type boolean;
  description
    "This object indicates whether the End User License Agreement
    needed for installing the licenses is accepted.

    true(1) - EULA is read and accepted
    false(2) - EULA is not accepted

```

Management application should set this object to true(1) when installing licenses that need EULA acceptance.";

```

smiv2:defval "false";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.21";
}

```

```

leaf clmgmtLicenseEULAFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the file where all the End User License
    Agreements (EULAs) need to be exported to. This object need to

```

```

        be set only if clmgmtLicenseAction is set to generateEULA(7) and
        the management application must set the value of this object to
        valid value before invoking action.";
    smiv2:defval "";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.2.1.22";
}
}
}

```

```

container clmgmtLicenseActionResultTable {
    description
    "This table contains results of license action if the
    license action involves multiple licenses. Entries in this
    table are not created for actions where there is
    only license that is subject of the action. For
    example, if there are 3 licenses in a license file
    when executing license install action, 3 entries will
    be created in this table, one for each license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3";
}

```

```

list clmgmtLicenseActionResultEntry {
    key "clmgmtLicenseActionIndex clmgmtLicenseNumber";
    description
    "An entry in clmgmtLicenseActionResultTable. Each entry
    contains result of the action for a single license.
    These entries are created immediately after action
    execution when the action involves multiple licenses.
    These entries get automatically deleted when the
    corresponding entry in clmgmtLicenseActionTable
    is deleted.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1";
}

```

```

leaf clmgmtLicenseActionIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseActionTable/cisco-license-mgmt-mib:clmgmtLicenseActionEntry/cisco-license-mgmt-
mib:clmgmtLicenseActionIndex";
    }
}

```

```

leaf clmgmtLicenseNumber {
    type uint32 {
        range "1..4294967295";
    }
    description
    "This object indicates the sequence number of this license
    in the list of licenses on which the action

```

is executed.

For example, if there are 3 licenses in a license file when executing license install action, this object will have values 1, 2 and 3 respectively as ordered in the license file.";

```
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.1";
}
```

```
leaf clmgmtLicenseIndivActionState {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
  description
    "This object indicates the state of action on this
    individual license.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.2";
}
```

```
leaf clmgmtLicenseIndivActionFailCause {
  type cisco-license-mgmt-mib:ClmgmtLicenseActionFailCause;
  description
    "This object indicates the reason for action failure on this
    individual license";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.1.3.1.3";
}
}
}
```

```
container clmgmtLicenseStoreInfoTable {
  description
    "This table contains information about all the license
    stores allocated on the device.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1";
```

```
list clmgmtLicenseStoreInfoEntry {
  key "entPhysicalIndex clmgmtLicenseStoreIndex";
  description
    "An entry in clmgmtLicenseStoreInfoTable. Each entry
    contains information about a license store allocated
    on the device";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1";
```

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```

}

leaf clmgmtLicenseStoreIndex {
  type uint32 {
    range "1..4294967295";
  }
  description
    "This object uniquely identifies a license store within
    the device.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.1";
}

leaf clmgmtLicenseStoreName {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object indicates the name of the license store
    within the device. It is a file in device's local file
    system i.e., either on a local disk or flash or some
    other storage media. For example, the value of this
    object can be 'disk1:lic_store_1.txt' or
    'flash:lic_store_2.txt';
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.2";
}

leaf clmgmtLicenseStoreTotalSize {
  type uint32;
  units "bytes";
  description
    "This object indicates the total number of bytes that are
    allocated to the license store.";
  smiv2:max-access "read-only";
  smiv2:oid
"1.3.6.1.4.1.9.9.543.1.2.1.1.3";
}

leaf clmgmtLicenseStoreSizeRemaining {
  type uint32;
  units "bytes";
  description
    "This object indicates the number of bytes still remaining
    to be used for new license installations in the license
    store.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.1.1.4";
}

```

```

    }
  }
}

```

```

container clmgmtLicenseDeviceInfoTable {

```

```

  description

```

```

  "This table contains objects that provide licensing related
  information at the device level. Entries will exist
  only for entities that support licensing. For example,
  if it is a stand alone device and supports licensing,
  then there will be only one entry in this table. If
  it is stackable switch then there will be multiple
  entries with one entry for each device in the stack.";

```

```

  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2";

```

```

  list

```

```

  clmgmtLicenseDeviceInfoEntry {

```

```

    key "entPhysicalIndex";

```

```

    description

```

```

    "An entry in clmgmtLicenseDeviceInfoTable. Each entry
    contains device level licensing information for a device.";

```

```

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1";

```

```

    leaf entPhysicalIndex {

```

```

      type leafref {

```

```

        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
        mib:entPhysicalIndex";

```

```

      }

```

```

    }

```

```

    leaf clmgmtDefaultLicenseStore {

```

```

      type uint32 {

```

```

        range "1..4294967295";

```

```

      }

```

```

      description

```

```

      "This object indicates the clmgmtLicenseStoreIndex of
      default store in the device. There will be only one
      default license store per device. If no license store
      is specified during license install, this default license
      store will be used.";

```

```

      smiv2:max-access "read-only";

```

```

      smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.2.1.1";

```

```

    }

```

```

  }

```

```

}

```

```

container clmgmtLicenseInfoTable {

```

```

  description

```

"This table contains information about all the licenses
installed on the device.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3";

```
list clmgmtLicenseInfoEntry {  
  key "entPhysicalIndex clmgmtLicenseStoreUsed clmgmtLicenseIndex";  
  description  
    "An entry in clmgmtLicenseInfoTable. Each entry contains  
    information about a license installed on the device. This  
    entry gets created when a license is installed successfully.  
    Management application can not create these entries directly, but  
    will do so indirectly by executing license install action.  
    Some of these entries may already exist that correspond to  
    demo licenses even before management application installs any  
    licenses.";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";
```

```
  leaf entPhysicalIndex {  
    type leafref {  
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-  
mib:entPhysicalIndex";  
    }  
  }  
}
```

```
leaf clmgmtLicenseStoreUsed {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object represents the license store that is used for  
    storing this license. This object will have the same value  
    as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry  
    of the license store used.";  
  smiv2:max-access "not-accessible";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.1";  
}
```

```
leaf clmgmtLicenseIndex {  
  type cisco-license-mgmt-mib:ClmgmtLicenseIndex;  
  description  
    "This object uniquely identifies a license within  
    the device.";  
  smiv2:max-access "not-accessible";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.2";  
}
```

```
leaf clmgmtLicenseFeatureName {  
  type snmp-framework:SnmpAdminString
```

```

{
    length "0..128";
}
description
    "This object indicates the name of the feature that is
    using or can use this license. A license can be used by
    only one feature. Examples of feature name are: 'IPBASE',
    'ADVIPSERVICE'.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.3";
}

```

```

leaf clmgmtLicenseFeatureVersion {
    type snmp-framework:SnmpAdminString {
        length "0..128";
    }
    description
        "This object indicates the version of the feature that is
        using or can use this license. Examples of feature version
        are: '1.0', '2.0'";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}

```

```

leaf clmgmtLicenseType {
    type enumeration {
        enum "demo" {
            value "1";
        }
        enum "extension"
    {
        value "2";
    }
        enum "gracePeriod" {
            value "3";
        }
        enum "permanent" {
            value "4";
        }
        enum "paidSubscription" {
            value "5";
        }
        enum "evaluationSubscription" {
            value "6";
        }
        enum "extensionSubscription" {
            value "7";
        }
    }
}

```



```

enum "evalRightToUse" {
    value "8";
}
enum "rightToUse" {
    value "9";
}
enum "permanentRightToUse" {
    value "10";
}
}

```

description

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period

defined in terms of calendar dates.

demo(1) - demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are not locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses

have a start date and an end date associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of

the product.

This is a Right To Use license which is not in
evaluation mode for a limited time.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.5";
}
```

```
leaf clmgmtLicenseCounted {
  type boolean;
  description
    "This object indicates whether the license is counted
    license.
    true(1) - counted license
    false(2) - uncounted license";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.6";
}
```

```
leaf clmgmtLicenseValidityPeriod {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period the license is valid for.
    This object is applicable only if clmgmtLicenseType is demo(1),
    or extension(2) or gracePeriod(3) or evalRightToUse(8). The
    object will return
    0 for other license types.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.7";
}
```

```
leaf clmgmtLicenseValidityPeriodRemaining {
  type uint32;
  units "seconds";
  description
    "This object indicates the time period remaining before the
    license expires or transitions to rightToUse(9) license. This
    object is applicable only if clmgmtLicenseType is demo(1), or
    extension(2) or gracePeriod(3) or evalRightToUse(8). The object
    will contain 0 for other license types.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.8";
}
```

```
leaf clmgmtLicenseExpiredPeriod {
  type uint32;
  units "seconds";
  description
```

"This object indicates the elapsed time period since the license expired. This object is applicable only if clmgmtLicenseType is demo(1), or extension(2) or gracePeriod(3). Also, this value of this object will be valid only after the license expires. The object will return 0 for other license types or before the license expiry.";

```
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.9";
}
```

```
leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if
    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}
```

```
leaf clmgmtLicenseUsageCountRemaining {
  type uint32;
  description
    "This object indicates the number of entities that can
    still
    use this license. This object is applicable only
    if clmgmtLicenseCounted is true(1).";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.11";
}
```

```
leaf clmgmtLicenseEULAStatus {
  type boolean;
  description
    "This object indicates whether the user accepted
    End User License Agreement for this license.

    true(1) - EULA accpeted
    false(2) - EULA not accepted";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.12";
}
```

```
leaf clmgmtLicenseComments {
  type snmp-framework:SnmpAdminString {
```

```

length "0..255";
}
description
"This object represents the user modifiable comments
about the license. This object is initially populated
with comments from the license file.";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.13";
}

```

```

leaf clmgmtLicenseStatus {
type enumeration {
enum "inactive" {
value "1";
}
enum "notInUse" {
value "2";
}
enum "inUse" {
value "3";
}
enum "expiredInUse" {
value "4";
}
enum "expiredNotInUse" {
value "5";
}
enum "usageCountConsumed" {
value "6";
}
}
}

```

description
 "This object represents status of the license.

inactive(1) - license is installed, but
 not active.

notInUse(2) - license is installed and
 available for use.

inUse(3) - the license is being used (by
 a feature).

expiredInUse(4)
 - license is expired but still
 being held by the feature.

expiredNotInUse(5) - license is expired and not being
 held by any feature.

usageCountConsumed(6) - number of entities using this
 licenses has reached the allowed
 limit, no new entities are allowed

```

        to use this license.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
}

leaf clmgmtLicenseStartDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the start date for a subscription
        license. It is optional for subscription lincses to have a
        start date associated with them, they may only have an end
        date associated with them. This object may be applicable only

when clmgmtLicenseType is paidSubscription(5),
    evaluationSubscription(6) or extensionSubscription (7).
    The object will contain an octet string of length 0 when it is
    not applicable.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}

leaf clmgmtLicenseEndDate {
    type snmpv2-tc:DateAndTime;
    description
        "This object indicates the end date for a subscription license.
        This object is applicable only when clmgmtLicenseType is
        paidSubscription(5), evaluationSubscription(6) or
        extensionSubscription (7). The object will contain an octet
        string of length 0 when it is not applicable.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.16";
}

leaf clmgmtLicensePeriodUsed {
    type uint32;
    units "seconds";
    description
        "This
object indicates the time period used for the
    Right to use (RTU) licenses. This object is applicable for all
    RTU licenses.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.17";
}
}
}

container clmgmtLicensableFeatureTable {

```

```

description
"This table contains list of licensable features in the
image. All the licensable features will have an entry each
in this table irrespective of whether they are using any
licenses currently. Entries in this table are created by
the agent one for each licensable feature in the image.
These entries remain in the table permanently and can not
be deleted. Management application can not create or delete
entries from this table.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4";

list clmgmtLicensableFeatureEntry {
  key "entPhysicalIndex clmgmtFeatureIndex";
  description
  "An entry
in clmgmtLicensableFeatureTable. Each entry represents
  a licensable feature.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type uint32 {
      range "1..4294967295";
    }
    description
    "This object uniquely identifies a licensable feature in
    the device.";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.1";
  }

  leaf clmgmtFeatureName {
    type snmp-framework:SnmpAdminString {
      length "0..128";
    }
    description
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE';
    smiv2:max-access
    "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.2";
  }

```

```
}
```

```
leaf clmgmtFeatureVersion {  
  type snmp-framework:SnmpAdminString {  
    length "0..32";  
  }  
  description  
    "This object indicates the version of the licensable  
    feature in the device. Examples of feature versions  
    are: '1.0' or '2.0';  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.3";  
}
```

```
leaf clmgmtFeatureValidityPeriodRemaining {  
  type uint32;  
  units "seconds";  
  description  
    "This object indicates the time period remaining before  
    the feature's license expires or transitions. This object is  
    applicable only if clmgmtLicenseType of the license used by  
    this feature is demo(1), or extension(2) or gracePeriod(3) or  
    evalRightToUse(8).
```

```
    The object will contain 0 if  
other types of license is used  
    or if the feature does not use any license. If the  
    feature is using multiple licenses, this period will  
    represent the cumulative period remaining from all the  
    licenses used by this feature.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.4";  
}
```

```
leaf clmgmtFeatureWhatIsCounted {  
  type snmp-framework:SnmpAdminString {  
    length "0..128";  
  }  
  description  
    "This object represents the entity that is being counted  
    by this feature. Examples of entities are IP Phones, number  
    of sessions etc. This object is only applicable for  
    features that use counting licenses. For other features,  
    this object will return empty string.";  
  smiv2:max-access "read-only";  
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.5";  
}
```

```

leaf clmgmtFeatureStartDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license start date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid start date. The start date will
    be the earliest of the valid start dates of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid start date then this object will contain an
    octet string of length 0.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.6";
}

leaf clmgmtFeatureEndDate {
  type snmpv2-tc:DateAndTime;
  description
    "This object indicates the license end date of the feature.
    This object is applicable if at least one of the licenses used
    for this feature has a valid end date. The end date will
    be the latest of the valid end dates
of all the licenses
    used for this feature. If none of the licenses used for this
    feature have a valid end date then this object will contain an
    octet string of length 0.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.7";
}

leaf clmgmtFeaturePeriodUsed {
  type uint32;
  units "seconds";
  description
    "This object indicates the license period used for the feature.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1.8";
}
}
}

```

```

container clmgmtDevCredExportActionTable {
  description
    "A table for triggering device credentials export action.
    Management application must create this entry to trigger the
    export of device credentials from the device to a file.

```

Once the request completes, the management application should

retrieve the values of the objects
of interest, and then
delete the entry. In order to prevent old entries from
clogging the table, entries will be aged out, but an entry
will never be deleted within 5 minutes of completion.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2";

```
list clmgmtDevCredExportActionEntry {  
  key "clmgmtDevCredExportActionIndex";  
  description  
  "An entry for each device credential export action that  
  is being executed or was executed recently. The management  
  application triggers the export by creating an entry in this  
  table. This can be done in the following 2 methods
```

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus
to createAndGo(4) and all other required objects to valid
values in a single SNMP SET request. If all the values
are valid, the device creates the entry and executes the
action. If

the SET request fails, the entry will not be
created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to
createAndWait(5) to create an entry. Management application
can set all other required objects to valid
values in more than one SNMP SET request. If SET request
for any of the objects fails, management application can set
just only that object. Once all the required objects
are set to valid values, management application triggers action
execution by setting clmgmtDevCredExportActionStatus to
active(1).

To stop the action from being executed, the management application
can delete the entry by setting clmgmtDevCredExportActionStatus
to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by
querying

clmgmtDevCredCommandState. If the action is still in
pending(2) or inProgress(3), the management application need to
check back again after few seconds. Once the action completes
and if status of the action is failed(6), the reason for
failure can be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set
to inProgress(3). All entries in this table are volatile

and are cleared on agent reset.";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1";

```
leaf clmgmtDevCredExportActionIndex {  
  type uint32 {  
    range "1..4294967295";  
  }  
  description  
    "This object uniquely identifies a row in  
    clmgmtDevCredExportActionTable. The management application  
    chooses this value by reading  
    clmgmtNextFreeDevCredExportActionIndex while creating an  
    entry in this table.
```

If an entry already exists with this
index, the creation of the entry will not continue and
error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object.";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}

```
leaf clmgmtDevCredEntPhysicalIndex {  
  type entity-mib:PhysicalIndexOrZero;  
  description  
    "This object represents the entPhysicalIndex of the device  
    for which the device credentials are being retrieved. This  
    object is mainly used in devices where one device is acting  
    as a master and rest of the devices as slaves. The master  
    device is responsible for SNMP communication with the  
    manager. Examples include stackable switches, devices with  
    router processor and line cards.
```

Note: This object need not be set if it is a stand alone
device";
smiv2:defval "0";
smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.2";
}

```
leaf clmgmtDevCredTransferProtocol {  
  type cisco-license-mgmt-mib:ClmgmtLicenseTransferProtocol;  
  description  
    "This object indicates the transfer protocol to be used when  
    copying files as specified in the following objects.  
    1. clmgmtDevCredExportFile  
    .";  
  smiv2:defval "none";
```

```

smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.3";
}

```

```

leaf clmgmtDevCredServerAddressType {
  type inet-address:InetAddressType;
  description
    "This object indicates the transport type of the
    address contained in clmgmtDevCredServerAddress object.
    This must be set when clmgmtDevCredTransferProtocol
    is not none(1) or local(2).";
  smiv2:defval "unknown";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.4";
}

```

```

leaf clmgmtDevCredServerAddress {
  type inet-address:InetAddress;
  description
    "This object indicates the the ip address of the server
    from which the files must be read or written to if
    clmgmtDevCredTransferProtocol is not none(1) or local(2).

```

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

```

    The format of this address depends on the value of the
    clmgmtDevCredServerAddressType object";
  smiv2:defval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.5";
}

```

```

leaf clmgmtDevCredServerUsername {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
}

```

```

description
  "This object indicates the remote user name for accessing
  files via ftp, rcp, sftp or scp protocols. This object
  must be set when the clmgmtDevCredTransferProtocol is
  ftp(4), rcp(5), scp(7) or sftp(8). If
  clmgmtDevCredTransferProtocol is rcp(5), the remote
  username is sent as the server username in an rcp command
  request sent by the system to a remote rcp server.";
  smiv2:defval "";
  smiv2:max-access "read-write";

```

```

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.6";
}

```

```

leaf clmgmtDevCredServerPassword {
  type snmp-framework:SnmpAdminString {
    length "0..96";
  }
  description
    "This object indicates the password used by ftp, sftp or
    scp for copying a file to/from an ftp/sftp/scp server.
    This object must be set when the
    clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or
    sftp(8). Reading it returns a zero-length string for
    security reasons.";
  smiv2:defaultval "";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

```

```

leaf clmgmtDevCredExportFile {
  type snmp-framework:SnmpAdminString {
    length "0..255";
  }
  description
    "This object represents file where device credentials needs
    to be exported to.";
  smiv2:max-access "read-write";
  smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.8";
}

```

```

leaf clmgmtDevCredCommand {
  type enumeration {
    enum "noOp" {
      value "1";
    }
    enum "getDeviceCredentials" {
      value "2";
    }
  }
  description
    "This object indicates the the command to be executed.

```

Command	Remarks

noOp(1)	No operation will be performed.

```

    getDeviceCredentials(2)    Exports device credentials";
    smiv2:defval "noOp";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.9";
}

```

```

leaf clmgmtDevCredCommandState {
    type cisco-license-mgmt-mib:ClmgmtLicenseActionState;
    description
        "This object indicates the state of the action that is
        executed as a result of setting clmgmtDevCredRowStatus
        to active(1).";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.10";
}

```

```

leaf clmgmtDevCredCommandFailCause {
    type enumeration {
        enum "none" {
            value "1";
        }
        enum "unknownError" {
            value "2";
        }
        enum "transferProtocolNotSupported"
    {
        value "3";
    }
        enum "fileServerNotReachable" {
            value "4";
        }
        enum "unrecognizedEntPhysicalIndex" {
            value "5";
        }
        enum "invalidFile" {
            value "6";
        }
    }
    description
        "This object indicates the the reason for device
        credentials export operation failure.

```

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.
If the action is completed and the
action is successful, then also

```

        none(1) is returned to indicate that
        there are no errors.
        unknownError(2) - reason for failure is unknown,
        operation failed, no
operation is
        performed
        transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
            given is not supported.
        fileServerNotReachable(4) - file server is not reachable.
        unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not
            valid
        invalidFile(6) - The target file specified is not valid.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";
}

```

```

leaf clmgmtDevCredStorageType {
    type snmpv2-tc:StorageType;
    description
        "This object indicates the storage type for this conceptual
        row. Conceptual rows having the value 'permanent' need not
        allow write-access to any columnar objects in the row.";
    smiv2:defval "volatile";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.12";
}

```

```

leaf clmgmtDevCredRowStatus {
    type snmpv2-tc:RowStatus;
    description
        "This object indicates the the status of this table entry.
        Once the entry status is set to active(1), the associated
        entry cannot be modified until the action completes
        (clmgmtDevCredCommandStatus is set to a value
        other than inProgress(3)). Once the action completes
        the only operation possible after this is to delete
        the row.

```

```

        clmgmtDevCredExportFile is a mandatory object to be
        set when creating this entry.";

```

```

smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.13";
}

```

```

}
}
}
}

```

```

notification clmgmtLicenseExpired {

```

```

description
  "This notification is sent, when a feature license
  expires. This notification will be sent continuously
  every week even after the expiry to alert the
management
  application.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.1";

container object-1 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

container object-2 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
  }
}

```

```

    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}
}
}

notification clmgmtLicenseExpiryWarning {
    description
    "This notification is sent when a license is about to
    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification
    when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
            }
        }
    }
}

```



```

    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }
}

```

```

leaf clmgmtFeatureValidityPeriodRemaining {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
  }
}

```

```

notification clmgmtLicenseUsageCountExceeded {
  description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached clmgmtLicenseMaxUsageCount for a counting license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.3";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
  }
}

```

```

    }

    container object-2 {

        leaf entPhysicalIndex {
            type leafref
        {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

        leaf clmgmtLicenseStoreUsed {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
            }
        }

        leaf clmgmtLicenseFeatureVersion {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
            }
        }
    }

    container object-3 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtLicenseStoreUsed {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseMaxUsageCount {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }

  leaf clmgmtFeatureWhatIsCounted {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
    }
  }
}

```

```

}

container object-5 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
        }
    }
}

notification clmgmtLicenseUsageCountAboutToExceed
{
    description
    "This notification is sent when clmgmtLicenseUsageCountRemaining
    has reached 80% of clmgmtLicenseMaxUsageCount for a counting
    license. This is a warning notification to the management
    application that very soon the maximum count will be reached
    and after that the device will not allow new entities to
    make use of this license.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.4";
}

```

```

container object-1 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {

            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-

```

```

mib:clmgmtLicenseStoreUsed";
    }

}

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseMaxUsageCount {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseMaxUsageCount";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseUsageCountRemaining {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseUsageCountRemaining";
    }
  }
}

container object-5 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```



```

    }
}

leaf clmgmtFeatureIndex {
    type leafref
{
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureWhatIsCounted {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureWhatIsCounted";
    }
}

container object-6 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseComments {
        type leafref {

```

```

        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
    }
}
}

notification clmgmtLicenseInstalled {
    description
        "This notification is sent when a license is installed
        successfully.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.5";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

            }
        }

        leaf clmgmtLicenseStoreUsed {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
            }
        }

        leaf clmgmtLicenseFeatureName {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
            }
        }
    }
}

```

```

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type
    leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
}

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
}

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseType {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
        }
    }
}

    container
object-4 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtLicenseStoreUsed {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
            }
        }

        leaf clmgmtLicenseIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
            }
        }
    }
}

```

```

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }
}

notification clmgmtLicenseCleared {
  description
    "This notification is sent when a license is cleared
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.6";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtLicenseStoreUsed {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
      }
    }

    leaf clmgmtLicenseIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
      }
    }

    leaf clmgmtLicenseFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
      }
    }
  }
}

```

```

    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {
        type leafref {

```

```

    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

leaf clmgmtLicenseType {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path
"/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }
}

```

```

leaf clmgmtLicenseComments {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
  }
}

```

```

notification clmgmtLicenseRevoked {
  description
    "This notification is sent when a license is revoked
    successfully.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

leaf clmgmtLicenseStoreUsed {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
  }
}

```

```

leaf clmgmtLicenseIndex {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
  }
}

```

```

leaf clmgmtLicenseFeatureName {
  type leafref {
    path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureName";
  }
}

```



```

    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {

        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
        }
    }

    leaf clmgmtLicenseIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
        }
    }

    leaf clmgmtLicenseFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtLicenseStoreUsed {

```

```

    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }

  leaf clmgmtLicenseType {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseType";
    }
  }
}

container object-4 {

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }

  leaf clmgmtLicenseStoreUsed {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseStoreUsed";
    }
  }

  leaf clmgmtLicenseIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseIndex";
    }
  }
}

```

```

    leaf clmgmtLicenseComments {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicenseInfoTable/cisco-license-mgmt-mib:clmgmtLicenseInfoEntry/cisco-license-mgmt-
mib:clmgmtLicenseComments";
      }
    }
  }
}

notification clmgmtLicenseEULAAccepted {
  description
    "This
notification is sent when a user accepts End User
License Agreement (EULA) for a license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }

  container object-2 {

    leaf entPhysicalIndex {

```

```

type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}

notification clmgmtLicenseNotEnforced {
    description
        "This notification is sent when a license does not
        exist for a feature, but the feature is a mandatory
        feature and it should run. This notification will be
        sent out periodically
        to indicate that there is no
        license installed for this feature and it needs to
        be done as soon as possible.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.9";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-

```

```

mib:clmgmtFeatureIndex";
    }
}

    leaf clmgmtFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
        }
    }
}

    container object-2 {

        leaf
entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
            }
        }

        leaf clmgmtFeatureVersion {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
            }
        }
    }

notification clmgmtLicenseSubscriptionExpiryWarning {
    description
        "This notification is sent when a subscription license of a
        feature is about to expire. This notification will be sent as
        per the following
    schedule:
        Once a week for the last eight weeks

```

Once a day for the last week
Once a hour for the last day";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.10";

container object-1 {

```
    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }
```

```
    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
```

```
    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
      }
    }
  }
```

container object-2 {

```
    leaf
entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
  }
```

```
    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
  }
```

```

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
  }

  container object-3 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf
    clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }

  notification clmgmtLicenseSubscriptionExtExpiryWarning {
    description
      "This notification is sent when the subscription license end
      date of a feature is reached but extension period is left. This
      notification will be sent once a day after the license end date
      is reached.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.11";

    container object-1 {

      leaf entPhysicalIndex {

```

```

    type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureName {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {

            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

```



```

}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureEndDate {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
        }
    }
}

notification clmgmtLicenseSubscriptionExpired {
    description
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired";
    smiv2:oid "1.3.6.1.4.1.9.9.543.0.12";

    container object-1 {

        leaf entPhysicalIndex {
            type leafref {
                path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
            }
        }

        leaf clmgmtFeatureIndex {
            type leafref {
                path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

    leaf clmgmtFeatureName {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
        }
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf clmgmtFeatureIndex {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
        }
    }

    leaf clmgmtFeatureVersion {
        type leafref {
            path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
        }
    }
}

container object-3 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }
}

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureEndDate {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureEndDate";
      }
    }
  }
}

notification clmgmtLicenseEvalRTUTransitionWarning {
  description
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.13";

  container object-1 {

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }

    leaf clmgmtFeatureName {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-

```

```

mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

container object-2 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
}

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
}

```

```

    leaf clmgmtFeatureVersion {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
      }
    }
}

```

```

container object-3 {

```

```

    leaf entPhysicalIndex {
      type leafref {
        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
      }
    }
}

```

```

    leaf clmgmtFeatureIndex {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
      }
    }
}

```

```

    leaf clmgmtFeatureValidityPeriodRemaining {
      type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureValidityPeriodRemaining";
      }
    }
  }
}

```

```

notification clmgmtLicenseEvalRTUTransition {
  description
    "This notification is sent, when a feature license transitions
    from a evaluation to a
    Right to use (RTU) license.";
  smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";
}

```

```

container object-1 {

```

```

  leaf entPhysicalIndex {
    type leafref {
      path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureIndex {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
  }
}

```

```

  leaf clmgmtFeatureName {
    type leafref {
      path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureName";
    }
  }
}

```

```

container object-2 {

```

```

  leaf entPhysicalIndex {
    type leafref {

```

```

        path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
    }
}

leaf clmgmtFeatureIndex {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureIndex";
    }
}

leaf clmgmtFeatureVersion {
    type leafref {
        path "/cisco-license-mgmt-mib:CISCO-LICENSE-MGMT-MIB/cisco-license-mgmt-
mib:clmgmtLicensableFeatureTable/cisco-license-mgmt-mib:clmgmtLicensableFeatureEntry/cisco-license-mgmt-
mib:clmgmtFeatureVersion";
    }
}

smiv2:alias "ciscoLicenseMgmtMIB" {
    smiv2:oid "1.3.6.1.4.1.9.9.543";
}

smiv2:alias "ciscoLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.0";
}

smiv2:alias "ciscoLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1";
}

smiv2:alias "clmgmtLicenseConfiguration" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.1";
}

smiv2:alias "clmgmtLicenseInformation" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2";
}

smiv2:alias "clmgmtLicenseDeviceInformation" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.3";
}

smiv2:alias "clmgmtLicenseNotifObjects" {

```

```

    smiv2:oid "1.3.6.1.4.1.9.9.543.1.4";
}

smiv2:alias "ciscoLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2";
}

smiv2:alias "ciscoLicenseMgmtCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.1";
}

smiv2:alias "ciscoLicenseMgmtGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.543.2.2";
}

}

-- *****
-- CISCO-IMAGE-LICENSE-MGMT-MIB.my: Cisco MIB to manage image level on
-- Cisco devices.
--
-- August 2007, Ganesan Rajam
--
-- Copyright (c) 2006-2007 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-IMAGE-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue
        FROM SNMPv2-TC
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    entPhysicalIndex
        FROM ENTITY-MIB
    ciscoMgmt
        FROM CISCO-SMI;

```

ciscoImageLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "200710160000Z"

ORGANIZATION "Cisco Systems Inc."

CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing the running image level of a Cisco device. Cisco's licensing mechanism provides flexibility to run a device on a chosen image level.

This mechanism is referred to as image level licensing.

Image level licensing leverages the universal image based licensing solution.

The image level licensing mechanism works as follows -

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for

the configured image

level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain 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 advservicesk9 license.
- The next boot level is set to advservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely."

REVISION "200710160000Z"

DESCRIPTION

"Initial version of this MIB module."

::= { ciscoMgmt 640 }

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 separated by the ',' character.

If the license required to run a device at advipservices image level is advipservices and advsecurity, then the license name list will be 'advipservices,advsecurity'."

SYNTAX OCTET STRING (SIZE (0..255))

-- Table for executing license management actions.

cilmBootImageLevelTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that contains the configuration information of current and next boot image level. This table contains entries for each software module running in an image loaded in the device. The software module is identified by cilmModuleName and the device is identified by entPhysicalIndex."

::= { ciscoImageLicenseMgmtMIBObjects 1 }

cilmBootImageLevelEntry

OBJECT-TYPE

SYNTAX CilmBootImageLevelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license."

```
INDEX      {
            entPhysicalIndex,
            cilmModuleName
        }
 ::= { cilmBootImageLevelTable 1 }
```

```
CilmBootImageLevelEntry ::= SEQUENCE {
    cilmModuleName      SnmpAdminString,
    cilmCurrentImageLevel
        BootImageLevel,
    cilmConfiguredBootImageLevel BootImageLevel,
    cilmNextBootImageLevel  BootImageLevel,
    cilmCurrentLicenseStoreIndex Unsigned32,
    cilmCurrentLicenseIndex   Unsigned32,
    cilmNextBootLicenseStoreIndex Unsigned32,
    cilmNextBootLicenseIndex   Unsigned32
}
```

cilmModuleName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object is used as one of the two indices in cilmBootImageLevelTable. This object indicates the module name of the software package. There can be multiple modules in an image performing specific functionality. For example, in a wireless image there can be two modules - a base image module and a wireless module."

```
::= { cilmBootImageLevelEntry 1 }
```

cilmCurrentImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"This object indicates the current image level that the module is running."

```
::= { cilmBootImageLevelEntry 2 }
```

cilmConfiguredBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the configured image level of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by cilmNextBootImageLevel which is determined based on the license availability."

::= { cilmBootImageLevelEntry 3 }

cilmNextBootImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot image level is determined based on the availability of required license."

::= { cilmBootImageLevelEntry 4 }

cilmCurrentLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the currently used license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 5 }

cilmCurrentLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the currently used license. This object has the same value as clmgmtLicenseIndex

and

uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image."

::= { cilmBootImageLevelEntry 6 }

cilmNextBootLicenseStoreIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license store index where the next boot license is stored. This object has the same value as clmgmtLicenseStoreIndex object and uniquely identifies an entry in clmgmtLicenseStoreInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 7 }

cilmNextBootLicenseIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license index of the next boot license. This object has the same value as clmgmtLicenseIndex and uniquely identifies an entry in clmgmtLicenseInfoTable in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed for the next boot."

::= { cilmBootImageLevelEntry 8 }

cilmImageLevelToLicenseMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the mapping between different image levels of each modules in the image and the license required to run the modules at a particular

image level. This table can be used to identify the different image levels and the appropriate licenses required for each."

::= { ciscoImageLicenseMgmtMIBObjects 2 }

cilmImageLevelToLicenseMapEntry OBJECT-TYPE

SYNTAX CilmImageLevelToLicenseMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing the following information.

- The image levels at the which the modules can be run.
- The license required to the run a module at a particular image level.
- The priority of the license."

INDEX {
entPhysicalIndex,
cilmModuleName,
cilmImageLicenseMapIndex
}

::= { cilmImageLevelToLicenseMapTable 1 }

CilmImageLevelToLicenseMapEntry ::= SEQUENCE {

cilmImageLicenseMapIndex Unsigned32,
cilmImageLicenseImageLevel BootImageLevel,
cilmImageLicenseName LicenseNameList,
cilmImageLicensePriority Unsigned32

}

cilmImageLicenseMapIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a running
index used to identify an entry
of this table."

::= { cilmImageLevelToLicenseMapEntry 1 }

cilmImageLicenseImageLevel OBJECT-TYPE

SYNTAX BootImageLevel

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the image level at which
a module can be run. A module can be run at
different image levels. An entry will be created

in this table for every module and image level combination."

::= { cilmImageLevelToLicenseMapEntry 2 }

cilmImageLicenseName OBJECT-TYPE

SYNTAX LicenseNameList

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the list of licenses needed to be installed for the module to run at the image level mentioned by cilmImageLicenseImageLevel object of this entry."

::= { cilmImageLevelToLicenseMapEntry 3 }

cilmImageLicensePriority OBJECT-TYPE

SYNTAX Unsigned32

(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the priority of the image level mentioned by cilmImageLicenseImageLevel object of this entry. The image level with the highest priority license will be considered as the default level in the absence of next boot image level configuration. For example if there are three licenses l1, l2 and l3 in the ascending order of priority, then by default l1 will be the level at which the module will be running. If the next boot level is configured then the configuration will override the priority. The highest priority license supports a feature set which is a super set of all other licenses."

::= { cilmImageLevelToLicenseMapEntry 4 }

-- Global Objects

cilmEULAAccepted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object when set to TRUE means that the user has accepted the END USER LICENSE AGREEMENT. This object has to be set to TRUE by the user before using the objects in the cilmBootImageLevelTable to configure

```

    the license."
    DEFVAL      { false }
    ::= { ciscoImageLicenseMgmtMIBObjects 3 }
-- Notification control

cilmNotifCntl OBJECT IDENTIFIER
    ::= { ciscoImageLicenseMgmtMIBObjects 4 }

cilmImageLevelChangedNotif OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "Specify whether or not a notification should be
        generated on the detection of change in next boot
        image level.

        If set to TRUE, cilmBootImageLevelChanged notification
        will be generated. It is the responsibility of the
        management entity to ensure that the SNMP administrative
        model is configured in such a way as to allow the
        notification to be delivered."
    REFERENCE
        "See also RFC3413 for explanation that notifications
        are under the ultimate control of the MIB module in
        this document."
    DEFVAL      { false }
    ::= { cilmNotifCntl 1 }

-- Notifications

cilmBootImageLevelChanged NOTIFICATION-TYPE
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel
    }
    STATUS      current
    DESCRIPTION
        "This notification is triggered when next boot image level
        is changed in the management entity. The current and
        configured image level are indicated by cilmCurrentImageLevel
        and cilmConfiguredBootImageLevel objects respectively."
    ::= { ciscoImageLicenseMgmtMIBNotifs 1 }
-- Conformance

cilmModuleCompliances OBJECT IDENTIFIER
    ::= { ciscoImageLicenseMgmtMIBConform 1 }

```



```

cilmModuleGroups OBJECT IDENTIFIER
 ::= { ciscoImageLicenseMgmtMIBConform 2 }

cilmModuleCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "Compliance statement for Cisco Image level license mgmt MIB."
    MODULE      -- this module
    MANDATORY-GROUPS {
        cilmAdminGroup,
        cilmNotifGroup
    }

    GROUP      cilmOperGroup
    DESCRIPTION
        "This group is mandatory for all devices where
        multiple license are supported."
    ::= { cilmModuleCompliances 1 }

```

-- Units of Conformance

```

cilmAdminGroup OBJECT-GROUP
    OBJECTS      {
        cilmCurrentImageLevel,
        cilmConfiguredBootImageLevel,
        cilmNextBootImageLevel,
        cilmCurrentLicenseStoreIndex,
        cilmCurrentLicenseIndex,
        cilmNextBootLicenseStoreIndex,
        cilmNextBootLicenseIndex,
        cilmEULAAccepted,
        cilmImageLevelChangedNotif
    }

    STATUS      current
    DESCRIPTION
        "Objects for performing license set operation for setting
        next boot level."
    ::= { cilmModuleGroups 1 }

```

```

cilmOperGroup OBJECT-GROUP
    OBJECTS      {
        cilmImageLicenseImageLevel,
        cilmImageLicenseName,
        cilmImageLicensePriority
    }

```

```

STATUS      current
DESCRIPTION
    "Objects for getting current image level configuration data."
::= { cilmModuleGroups 2 }

cilmNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS { cilmBootImageLevelChanged }
STATUS      current
DESCRIPTION
    "Objects for getting current image level configuration data."
::= { cilmModuleGroups 3 }

END
-- *****
-- CISCO-LICENSE-MGMT-MIB.my: Cisco MIB to manage licenses on
-- Cisco devices
--
-- July 2006, Sunil Gudurvalmiki
--
-- Copyright (c) 2006, 2008, 2011-2012 by Cisco Systems Inc.
-- All rights reserved.
--
-- *****

CISCO-LICENSE-MGMT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    OBJECT-TYPE,
    MODULE-IDENTITY,
    Unsigned32,
    NOTIFICATION-TYPE
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION,
    TruthValue,
    RowStatus,
    StorageType,
    DateAndTime
        FROM SNMPv2-TC
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    entPhysicalIndex,
    PhysicalIndexOrZero
        FROM ENTITY-MIB
    InetAddressType,

```

InetAddress
FROM INET-ADDRESS-MIB
ciscoMgmt
FROM CISCO-SMI;

ciscoLicenseMgmtMIB MODULE-IDENTITY

LAST-UPDATED "201204190000Z"
ORGANIZATION "Cisco Systems Inc."
CONTACT-INFO

"Cisco Systems
Customer Service

Postal: 170 W Tasman Drive

San Jose, CA 95134

USA

Tel: +1 800 553 -NETS

E-mail: cs-snmp@cisco.com"

DESCRIPTION

"The MIB module for managing licenses on the system.
The licensing mechanism provides flexibility to
enforce licensing for various features in the system.

The following text introduces different concepts and
terms those are necessary to understand the MIB definition
and to perform license management.

UDI

Universal Device Identifier that uniquely identifies a
device. It comprises of product ID, version ID and serial
number of the device.

NODE LOCKED LICENSE:

Node locked licenses are locked to one of the device
identifiers in the system. For example, the license
can be locked to the UDI value of one of the devices
in the system. Locking a license to an UDI guarantees
that the license will not be moved to a device with a
different UDI.

NON-NODE LOCKED LICENSE:

Non-node locked licenses are not locked to any device
identifier. They can be used on other similar devices.

METERED LICENSE:

Metered licenses are valid for limited period of time and they expire after that. This period is the usage period of a license and it is not based on real time clock, but system clock.

EULA:

End User License Agreement.

EVALUATION LICENSE:

Evaluation licenses are non-node locked metered licenses which are valid only for a limited period. They are used only when there are no permanent, extension or grace period licenses for a feature. User

will have to accept EULA (End User License Agreement) before using an evaluation license. Even though they are not node locked, their usage is recorded on the device.

RIGHT TO USE (RTU) LICENSE:

Right to use license is a non-node locked metered license which is in evaluation mode for a limited time after which it is converted to Right To Use (RTU) license and is valid for the lifetime of the product. User will have to accept EULA (End User License Agreement) before using this license. Even though it is not node locked, usage information is recorded on the device.

EXTENSION LICENSE:

Extension licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. User will have to accept an

EULA as part of installation of extension license.

GRACE PERIOD LICENSE:

Grace period licenses are node locked metered licenses. These licenses are issued by Cisco's licensing portal as part of the permission ticket to rehost a license. These licenses are installed on the device as part of the rehost operation. User will have to accept an EULA as part of the rehost operation for this type of license. Details on permission ticket, rehost operations are provided further down in this description clause.

PERMANENT LICENSE:

Permanent licenses are node locked licenses that have no usage period associated with them. These licenses are issued by Cisco's licensing portal. These licenses need to be installed using management interfaces on the device. Once these licenses are installed, they will provide needed permission for the feature/image across different versions.

COUNTED LICENSE:

Counted licenses limit the number of similar entities that can use the license. For example, a counted license when used by a feature can limit the number of IP phones that can connect or the number of tunnels that can be created.

UNCOUNTED LICENSE:

Uncounted licenses do not limit the number of similar entities that can use the licenses.

License can be enforced at the image level or at the feature level and this MIB module supports both.

IMAGE LEVEL LICENSING:

A universal image that contains all levels of software packages is loaded on to the device. At boot time, the device determines the highest level of license and brings up the appropriate software features or subsystems.

FEATURE LEVEL LICENSING:

Feature level licensing will support enforcement of license at individual feature. Features have to check for their licenses before enabling themselves. If it does not have a license, the feature should disable itself.

There is a one-to-one relationship between a feature and a license. That is, a feature can use only one license at a time and a license can be used by only one feature at a time.

LICENSE LINE:

A License line is an atomic set of ASCII characters arranged in a particular format that holds the license for a single feature within it. A line has all the necessary fields and attributes that make it a valid,

non-tamper able and complete license.

LICENSE FILE:

File generated by Cisco licensing portal. It is used to install license on product. It has a user readable part and it contains one or more license lines.

DEVICE CREDENTIALS:

Device credentials file is a document that is generated by a licensed device. This document establishes the identity of the device and proves that the sender/user has/had authorized access to the device.

REHOST:

Rehost operation allows a node locked license that is installed on a device to be installed on other similar device. As part of rehost operation, a device processes the permission ticket, revokes the license(s) on the device and generates a rehost ticket as the proof of revocation. This rehost ticket needs to be presented to the Cisco's licensing portal to get the license transferred on to a new similar device.

PERMISSION TICKET:

Permission ticket is a document generated by Cisco licensing portal that allows a device to rehost its licenses.

REHOST TICKET:

Rehost ticket is document generated by a device after it has applied a permission ticket. The rehost ticket is a proof of revocation.

LICENSING PORTAL:

Generates licenses, permission tickets and verifies device credentials and rehost tickets.

This MIB module provides MIB objects to install, clear, revoke licenses. It also provides objects to regenerate last rehost ticket, backup all the licenses installed on a device, generate & export EULA for licenses.

STEPS TO INSTALL A LICENSE:

- To install a license, the management application
1. Retrieves device credentials of the device.
 2. Communicates with Cisco's licensing portal to get the license file, uses device credentials to identify

the device

3. Executes the license install action.

STEPS TO CLEAR A LICENSE:

To clear a license, the management application

1. Identifies the license to be cleared using license index.
2. Executes the license clear action.

STEPS TO REHOST A LICENSE:

To rehost a license, the management application

1. Retrieves device credentials of the device.
2. Communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the processPermissionTicket action. Device revokes the license and generates rehost ticket to be submitted as proof of revocation.
4. Retrieves device credentials of the device where the license needs to be transferred to.
5. Submits rehost ticket as proof of revocation to Cisco's licensing portal, uses device credentials of

the new device to identify the device, gets license file.

6. Executes the license install action on the new device.

STEPS TO REGENERATE LAST REHOST TICKET:

To regenerate last rehost ticket, the management application

1. Retrieves device credentials of the device.
2. Uses already obtained permission ticket or communicates with Cisco's licensing portal to get the permission ticket, uses device credentials to identify the device.
3. Executes the regenerateLastRehostTicket action. Device generates rehost ticket to be submitted as proof of revocation.

STEPS TO BACKUP ALL LICENSES:

To backup all licenses installed in the device, the management application

1. Specifies the backup file path.
2. Executes the license backup action.

STEPS TO GENERATE

& EXPORT EULA:

To install certain kind of licenses, the management application must accept EULA first. The management application can generate and export EULA for one or more licenses with out installing licenses as follows.

1. Specifies the license file path that has licenses to be installed
2. Specifies the EULA file path where EULA need to be exported to
3. Executes the generate EULA action.

To support the various license actions, this MIB module also defines MIB objects to know if a device supports licensing, retrieve device credentials, retrieve information on license stores in the device.

It also defines MIB objects to expose management information associated with the licenses installed on the device, with the licensable features in the software image.

This MIB module also defines various notifications that will be triggered to asynchronously notify the management application of any critical events.

This MIB module is defined generically so it can be implemented on stand alone devices or stack of devices. In stack of devices, one device in the stack acts as master agent and rest are slave agents. Each device in the stack has its own UDI. The master agent receives requests on behalf of all the devices in the stack including itself and delegates it to other devices as needed. It also collects responses from other devices and sends them to the management application. Examples of such devices include stackable switches, devices with route processor and line cards. On the other hand, stand alone device is a single device and has only one UDI associated with it.

entPhysicalIndex imported from ENTITY-MIB is used to identify the device uniquely. It is specified as the index

or one of the index for tables in this MIB as needed."

REVISION "201204190000Z"

DESCRIPTION

"This version of the MIB adds support for Permanent Right to use (RTU) licensing. The revisions are:

- o Updated clmgmtLicenseType object to support the following new types of license:

permanentRightToUse

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "201104190000Z"

DESCRIPTION

"This version of the MIB adds support for Right to use (RTU)

licensing. The revisions are:

- o Added RTU license definition to MIB description above.
- o Updated clmgmtLicenseType object to support the following new types of license:
 - evalRightToUse
 - rightToUse
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicensePeriodUsed
- o Added following objects to clmgmtLicensableFeatureTable
 - clmgmtFeaturePeriodUsed
- o Added the following notifications
 - clmgmtLicenseEvalRTUTransitionWarning
 - clmgmtLicenseEvalRTUTransition
- o Added the following conformance groups
 - clmgmtLicenseRTUGroup
 - clmgmtLicenseRTUUsageNotifGroup

The new module compliance is ciscoLicenseMgmtComplianceRev1."

REVISION "200811210000Z"

DESCRIPTION

"This version of the MIB adds support for subscription

licensing. Subscription licenses provide software

enforcement for a licensed feature for a fixed calendar

period. The revisions are:

- o Updated clmgmtLicenseType object to support the following three new types of licenses:
 - paidSubscription
 - evaluationSubscription
 - extensionSubscription
- o Added following objects to clmgmtLicenseInfoTable
 - clmgmtLicenseStartDate
 - clmgmtLicenseEndDate
- o Added following objects to clmgmtLicensableFeatureTable
 - clmgmtFeatureStartDate
 - clmgmtFeatureEndDate
- o Added the following notifications
 - clmgmtLicenseSubscriptionExpiryWarning
 - clmgmtLicenseSubscriptionExtExpiryWarning
 - clmgmtLicenseSubscriptionExpired
- o Added the following conformance groups

```

        clmgmtLicenseSubscriptionGroup
        clmgmtLicenseSubscriptionUsageNotifGroup
    The new module compliance is ciscoLicenseMgmtComplianceRev1."
REVISION      "200610030000Z"
DESCRIPTION
    "Initial version of this MIB module."
::= { ciscoMgmt 543 }

```

```

ciscoLicenseMgmtMIBNotifs OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIB 0 }

```

```

ciscoLicenseMgmtMIBObjects OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIB 1 }

```

```

ciscoLicenseMgmtMIBConform OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIB 2 }

```

```

clmgmtLicenseConfiguration OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBObjects 1 }

```

```

clmgmtLicenseInformation
OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBObjects 2 }

```

```

clmgmtLicenseDeviceInformation OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBObjects 3 }

```

```

clmgmtLicenseNotifObjects OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBObjects 4 }

```

```

ClmgmtLicenseIndex ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "A unique value, for each license in the managed system.
        It is not necessary to have values assigned contiguously.
        The value for each license must remain constant
        at least from one re-initialization of the entity's
        network management system to the next re-initialization"
    SYNTAX      Unsigned32 (1..4294967295)

```

```

ClmgmtLicenseIndexOrZero ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "This textual convention is an extension of the ClmgmtLicenseIndex
        convention. The latter defines a greater than zero value
        used to identify a license in the managed system.

```

This

extension permits the additional value of zero. The value zero is object-specific and must therefore be defined as part of the description of any object which uses this syntax. Examples of the usage of zero might include situations where license was not present or unknown."

SYNTAX Unsigned32

ClmgmtLicenseTransferProtocol ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The transfer protocol that should be used for copying files when performing license management. When the protocol is set to local(2), local file system (flash or disk) is used. Different agents may support different transfer protocols and the management application is expected to some how determine which protocol is supported and use."

SYNTAX INTEGER {
 none(1),
 local(2),
 tftp(3),
 ftp(4),
 rcp(5),
 http(6),
 scp(7),
 sftp(8)
 }

ClmgmtLicenseActionState ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The state of license action execution.

none(1) - action is not yet scheduled to be executed.

pending(2) - All the required parameters for the action are set and the action is scheduled to be executed.

inProgress(3) - action execution has started and is in progress.

successful(4) - action has completed successfully.

partiallySuccessful(5) - action has completed, but was partially successful. Management application can query additional MIB

objects to know what is successful
and what has failed. These 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 action.

1. Installing a license

The following MIB objects need to be set for installing a license

- a. `clmgmtLicenseActionTransferProtocol`
- b. `clmgmtLicenseServerAddressType`
- c. `clmgmtLicenseServerAddress`
- d. `clmgmtLicenseServerUsername`
- e. `clmgmtLicenseServerPassword`
- f. `clmgmtLicenseFile`
- g. `clmgmtLicenseStore`
- h. `clmgmtLicenseStopOnFailure`
- i. `clmgmtLicenseAcceptEULA`
- j. `clmgmtLicenseAction`

`clmgmtLicenseActionEntPhysicalIndex` need not be set explicitly for license installs. License itself identifies the device where the license needs to be installed.

`clmgmtLicenseStore` need to be set to store the licenses in a non-default license store. But, if a license file has more than one license and licenses need to be installed on multiple devices (for example to multiple members with in a stack), then value of `clmgmtLicenseStore` is ignored and the licenses will be installed in default license stores of the respective devices.

2. Clearing a license

The following MIB objects need to be set for clearing a license

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionLicenseIndex
- c. clmgmtLicenseStore
- d. clmgmtLicenseAction

3. Revoking a license

The following MIB objects need to be set for revoking a license

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

4. Regenerate last rehost ticket

The following MIB objects need to be set for regenerating last rehost ticket

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicensePermissionTicketFile
- g. clmgmtLicenseRehostTicketFile
- h. clmgmtLicenseStopOnFailure
- i. clmgmtLicenseAction

5. Save all licenses to a backup storage

The following MIB objects need to be set for storing all licenses to a backup store

- a. clmgmtLicenseActionEntPhysicalIndex
- b. clmgmtLicenseActionTransferProtocol
- c. clmgmtLicenseServerAddressType
- d. clmgmtLicenseServerAddress
- e. clmgmtLicenseServerUsername
- f. clmgmtLicenseServerPassword
- g. clmgmtLicenseBackupFile
- h. clmgmtLicenseAction

6. Generate and export EULA if the licenses need EULA to be accepted for installing.

The following MIB objects need to be set exporting required EULAs

- a. clmgmtLicenseActionTransferProtocol
- b. clmgmtLicenseServerAddressType
- c. clmgmtLicenseServerAddress
- d. clmgmtLicenseServerUsername
- e. clmgmtLicenseServerPassword
- f. clmgmtLicenseFile
- g. clmgmtLicenseEULAFile
- h. clmgmtLicenseAction

For any action, if clmgmtLicenseActionTransferProtocol is set to local(2), the following objects need not be set.

- a. clmgmtLicenseServerAddressType
- b. clmgmtLicenseServerAddress
- c. clmgmtLicenseServerUsername
- d. clmgmtLicenseServerPassword

Entry can be deleted except when clmgmtLicenseAction is set to pending(2). All entries are volatile and are cleared on agent reset."

```
INDEX      { clmgmtLicenseActionIndex }
 ::= { clmgmtLicenseActionTable 1 }
```

```
ClmgmtLicenseActionEntry ::= SEQUENCE {
    clmgmtLicenseActionIndex      Unsigned32,
    clmgmtLicenseActionEntPhysicalIndex PhysicalIndexOrZero,
    clmgmtLicenseActionTransferProtocol ClmgmtLicenseTransferProtocol,
    clmgmtLicenseServerAddressType  InetAddressType,
    clmgmtLicenseServerAddress      InetAddress,
    clmgmtLicenseServerUsername      SnmpAdminString,
    clmgmtLicenseServerPassword      SnmpAdminString,
    clmgmtLicenseFile                SnmpAdminString,
    clmgmtLicenseStore                Unsigned32,
    clmgmtLicenseActionLicenseIndex
ClmgmtLicenseIndexOrZero,
    clmgmtLicensePermissionTicketFile SnmpAdminString,
    clmgmtLicenseRehostTicketFile      SnmpAdminString,
    clmgmtLicenseBackupFile             SnmpAdminString,
    clmgmtLicenseStopOnFailure          TruthValue,
    clmgmtLicenseAction                 INTEGER,
    clmgmtLicenseActionState             ClmgmtLicenseActionState,
    clmgmtLicenseJobQPosition            Unsigned32,
    clmgmtLicenseActionFailCause         ClmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType       StorageType,
    clmgmtLicenseActionRowStatus         RowStatus,
    clmgmtLicenseAcceptEULA              TruthValue,
```

```

        clmgmtLicenseEULAFile      SnmpAdminString
    }

```

clmgmtLicenseActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in
clmgmtLicenseActionTable.

The management application should choose

this value by reading clmgmtNextFreeLicenseActionIndex
while creating an entry in this table. If an entry already
exists with this index, the creation of the entry will not
continue and error will be returned. The management application
should read the value of clmgmtNextFreeLicenseActionIndex
again and retry with the new value for this object."

::= { clmgmtLicenseActionEntry 1 }

clmgmtLicenseActionEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device
where the action is being executed. This object is mainly
used in devices where one device is acting as a master and
rest of the devices as slaves. The master device is
responsible for SNMP communication with the management
application. Examples

include stackable switches, devices

with route processor and line card configuration. If this
object is not set, the license action will be executed on
the master device. Note: This object need not be set if
there is a stand alone device"

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 2 }

clmgmtLicenseActionTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the transfer protocol to be used
when copying files as specified in the following objects.

1. clmgmtLicenseFile
2. clmgmtLicensePermissionTicketFile
3. clmgmtLicenseRehostTicketFile

4. clmgmtLicenseBackupFile

Note: This object need not be set if the all the files required for the action are in device's local file system."

DEFVAL { none }
::= { clmgmtLicenseActionEntry 3 }

clmgmtLicenseServerAddressType

OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtLicenseServerAddress object. This must be set when clmgmtLicenseActionTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }
::= { clmgmtLicenseActionEntry 4 }

clmgmtLicenseServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the ip address of the server from which the files must be read or written to if clmgmtLicenseActionTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtLicenseServerAddress are not allowed.

The format of this address depends on the value of the clmgmtLicenseServerAddressType object"

DEFVAL { "" }
::= { clmgmtLicenseActionEntry 5 }

clmgmtLicenseServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtLicenseActionTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If

clmgtLicenseActionTransferProtocol 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 { "" }

::= { clmgtLicenseActionEntry 6 }

clmgtLicenseServerPassword 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 clmgtLicenseActionTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgtLicenseActionEntry 7 }

clmgtLicenseFile 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 clmgtLicenseServerAddress. This object MUST be set to a valid value before or concurrently with setting the value of the clmgtLicenseAction object to install(2). For other operations, the value of this object is not considered, it is irrelevant."

DEFVAL { "" }

::= { clmgtLicenseActionEntry 8 }

clmgtLicenseStore OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the clmgtLicenseStoreIndex 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 clmgtDefaultLicenseStore object."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 9 }

clmgmtLicenseActionLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the license index of the license that is the subject of this action. This is used for identifying a license for performing actions specific to that license. This object need to be set only if clmgmtLicenseAction is set to clear(4). The value of this object is same as the clmgmtLicenseIndex

object in

clmgmtLicenseInfoEntry for license that is subject of this action."

DEFVAL { 0 }

::= { clmgmtLicenseActionEntry 10 }

clmgmtLicensePermissionTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file name of the permission ticket. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions. The permission ticket is obtained from Cisco licensing portal to revoke a license. The management application must set this object to valid value before invoking the action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 11 }

clmgmtLicenseRehostTicketFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where the rehost ticket generated by the device need to be exported to. The rehost ticket is generated as a result of processPermissionTicket and regenerateLastRehostTicket actions. After generating the rehost ticket, the device exports the rehost ticket contents to this file. This object need to be set only if clmgmtLicenseAction is set to processPermissionTicket(4) or regenerateLastRehostTicket(5) actions."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 12 }

clmgmtLicenseBackupFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the file where all the licenses in the device need to be backed up. This object need to be set only if clmgmtLicenseAction is set to backup(6) and the management application must set the

value of this object

to valid value before invoking action."

DEFVAL { "" }

::= { clmgmtLicenseActionEntry 13 }

clmgmtLicenseStopOnFailure OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates whether the license action should stop if the action on a license fails. This object is applicable only if there are more than one licenses involved in an action."

DEFVAL { false }

::= { clmgmtLicenseActionEntry 14 }

clmgmtLicenseAction OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
install(2),
clear(3),
processPermissionTicket(4),
regenerateLastRehostTicket(5),
backup(6),
generateEULA(7)
}

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"This object indicates the the command/action to be executed.

Command	Remarks
-----	-----
noOp(1)	No operation will be performed.

install(2) Installs the license.

clear(3) Clears the license.

processPermissionTicket(4) Processes the permission ticket and generates and exports rehost ticket.

regenerateLastRehostTicket(5) Generates and exports the last generated rehost ticket.

backup(6) Backs up all the licenses installed currently onto a backup store.

generateEULA(7)
 Checks whether the licenses in the license file need EULA acceptance and uploads the needed EULA contents to a file."

DEFVAL { noOp }

::= { clmgmtLicenseActionEntry 15 }

clmgmtLicenseActionState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of this license action."

::= { clmgmtLicenseActionEntry 16 }

clmgmtLicenseJobQPosition OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents the position of the action in the license action job queue that is maintained internally. Only actions in pending(2) state will be put in the queue until they are executed. By reading this object, the management application can make intelligent decision on whether to execute another action that it is planning on. For example, if there is already a license clear action in the queue in pending(2) state, management application can choose to

defer its license back up action to a later time. This object will return a value of 0 if the action is not in pending(2) state."

::= { clmgmtLicenseActionEntry 17 }

clmgmtLicenseActionFailCause OBJECT-TYPE

SYNTAX ClmgmtLicenseActionFailCause

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the reason for this license action failure. The value of this object is valid only when clmgmtLicenseActionState is failed(6)."

::= { clmgmtLicenseActionEntry 18 }

clmgmtLicenseActionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtLicenseActionEntry 19 }

clmgmtLicenseActionRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry. Once the entry status is set to active(1), the associated entry cannot be modified until the action completes (clmgmtLicenseConfigCommandStatus is set to a value other than inProgress(3)). Once the action completes the only operation possible after this is to delete the row. It is recommended that the management application should delete entries in this table after reading the result. In order to prevent old entries from clogging the table, entries

will be aged out, but an

entry will never be deleted within 5 minutes of completion"

::= { clmgmtLicenseActionEntry 20 }

clmgmtLicenseAcceptEULA OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"This object indicates whether the End User License Agreement needed for installing the licenses is accepted.

true(1) - EULA is read and accepted
false(2) - EULA is not accepted

Management application should set this object to true(1) when installing licenses that need EULA acceptance."

DEFVAL { false }
::= { clmgmtLicenseActionEntry 21 }

clmgmtLicenseEULAFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"This object indicates the file where all the End User License Agreements (EULAs) need to be exported to. This object need to
be set only if clmgmtLicenseAction is set to generateEULA(7) and the management application must set the value of this object to valid value before invoking action."

DEFVAL { "" }
::= { clmgmtLicenseActionEntry 22 }

-- License action results table.

clmgmtLicenseActionResultTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseActionResultEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION

"This table contains results of license action if the license action involves multiple licenses. Entries in this table are not created for actions where there is only license that is subject of the action. For example, if there are 3 licenses in a license file when executing license install action, 3 entries will be created in this table, one for each license."

::= { clmgmtLicenseConfiguration 3 }

clmgmtLicenseActionResultEntry OBJECT-TYPE

SYNTAX

```

    ClmgmtLicenseActionResultEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
    "An entry in clmgmtLicenseActionResultTable. Each entry
    contains result of the action for a single license.
    These entries are created immediately after action
    execution when the action involves multiple licenses.
    These entries get automatically deleted when the
    corresponding entry in clmgmtLicenseActionTable
    is deleted."
INDEX         {
                clmgmtLicenseActionIndex,
                clmgmtLicenseNumber
            }
::= { clmgmtLicenseActionResultTable 1 }

ClmgmtLicenseActionResultEntry ::= SEQUENCE {
    clmgmtLicenseNumber      Unsigned32,
    clmgmtLicenseIndivActionState  ClmgmtLicenseActionState,
    clmgmtLicenseIndivActionFailCause ClmgmtLicenseActionFailCause
}

clmgmtLicenseNumber OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object indicates the sequence number of this license
    in the list of licenses on which the action is executed.
    For example, if there are 3 licenses in a license file
    when executing license install action, this object will
    have values 1, 2 and 3 respectively as ordered in the
    license file."
::= { clmgmtLicenseActionResultEntry 1 }

clmgmtLicenseIndivActionState OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionState
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the state of action on this
    individual license."
::= { clmgmtLicenseActionResultEntry 2 }

clmgmtLicenseIndivActionFailCause OBJECT-TYPE
SYNTAX      ClmgmtLicenseActionFailCause
MAX-ACCESS  read-only

```

```

STATUS      current
DESCRIPTION
    "This object indicates the reason for action failure
on this
    individual license"
::= { clmgmtLicenseActionResultEntry 3 }

-- License Store Info Table

clmgmtLicenseStoreInfoTable OBJECT-TYPE
SYNTAX      SEQUENCE OF ClmgmtLicenseStoreInfoEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains information about all the license
    stores allocated on the device."
::= { clmgmtLicenseInformation 1 }

clmgmtLicenseStoreInfoEntry OBJECT-TYPE
SYNTAX      ClmgmtLicenseStoreInfoEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An entry in clmgmtLicenseStoreInfoTable. Each entry
    contains information about a license store allocated
    on the device"
INDEX       {
            entPhysicalIndex,
            clmgmtLicenseStoreIndex
        }
::= { clmgmtLicenseStoreInfoTable 1 }

ClmgmtLicenseStoreInfoEntry ::= SEQUENCE {
    clmgmtLicenseStoreIndex
        Unsigned32,
    clmgmtLicenseStoreName      SnmpAdminString,
    clmgmtLicenseStoreTotalSize Unsigned32,
    clmgmtLicenseStoreSizeRemaining Unsigned32
}

clmgmtLicenseStoreIndex OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object uniquely identifies a license store within
    the device."

```

::= { clmgmtLicenseStoreInfoEntry 1 }

clmgmtLicenseStoreName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the license store within the device. It is a file in device's local file system i.e., either on a local disk or flash or some other storage media. For example, the value of this object can be 'disk1:lic_store_1.txt' or 'flash:lic_store_2.txt'"

::= { clmgmtLicenseStoreInfoEntry
2 }

clmgmtLicenseStoreTotalSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of bytes that are allocated to the license store."

::= { clmgmtLicenseStoreInfoEntry 3 }

clmgmtLicenseStoreSizeRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of bytes still remaining to be used for new license installations in the license store."

::= { clmgmtLicenseStoreInfoEntry 4 }

-- License Device Info Table

clmgmtLicenseDeviceInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicenseDeviceInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects that provide licensing related information"

at the device level. Entries will exist
 only for entities that support licensing. For example,
 if it is a stand alone device and supports licensing,
 then there will be only one entry in this table. If
 it is stackable switch then there will be multiple
 entries with one entry for each device in the stack."
 ::= { clmgmtLicenseInformation 2 }

clmgmtLicenseDeviceInfoEntry OBJECT-TYPE
 SYNTAX ClmgmtLicenseDeviceInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "An entry in clmgmtLicenseDeviceInfoTable. Each entry
 contains device level licensing information for a device."
 INDEX { entPhysicalIndex }
 ::= { clmgmtLicenseDeviceInfoTable 1 }

ClmgmtLicenseDeviceInfoEntry ::= SEQUENCE {
 clmgmtDefaultLicenseStore Unsigned32
 }

clmgmtDefaultLicenseStore OBJECT-TYPE
 SYNTAX Unsigned32 (1..4294967295)
 MAX-ACCESS read-only
 STATUS
 current
 DESCRIPTION
 "This object indicates the clmgmtLicenseStoreIndex of
 default store in the device. There will be only one
 default license store per device. If no license store
 is specified during license install, this default license
 store will be used."
 ::= { clmgmtLicenseDeviceInfoEntry 1 }

-- License Info Table

clmgmtLicenseInfoTable OBJECT-TYPE
 SYNTAX SEQUENCE OF ClmgmtLicenseInfoEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains information about all the licenses
 installed on the device."
 ::= { clmgmtLicenseInformation 3 }

clmgmtLicenseInfoEntry OBJECT-TYPE

SYNTAX ClmgmtLicenseInfoEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicenseInfoTable. Each entry contains information about a license installed on the device. This entry gets created when

a license is installed successfully.

Management application can not create these entries directly, but will do so indirectly by executing license install action.

Some of these entries may already exist that correspond to demo licenses even before management application installs any licenses."

```
INDEX        {  
                entPhysicalIndex,  
                clmgmtLicenseStoreUsed,  
                clmgmtLicenseIndex  
            }
```

```
::= { clmgmtLicenseInfoTable 1 }
```

```
ClmgmtLicenseInfoEntry ::= SEQUENCE {  
    clmgmtLicenseStoreUsed        Unsigned32,  
    clmgmtLicenseIndex           ClmgmtLicenseIndex,  
    clmgmtLicenseFeatureName      SnmpAdminString,  
    clmgmtLicenseFeatureVersion   SnmpAdminString,  
    clmgmtLicenseType            INTEGER,  
    clmgmtLicenseCounted          TruthValue,  
    clmgmtLicenseValidityPeriod   Unsigned32,  
    clmgmtLicenseValidityPeriodRemaining Unsigned32,  
    clmgmtLicenseExpiredPeriod   Unsigned32,  
    clmgmtLicenseMaxUsageCount   Unsigned32,  
    clmgmtLicenseUsageCountRemaining Unsigned32,  
    clmgmtLicenseEULAStatus       TruthValue,  
    clmgmtLicenseComments        SnmpAdminString,  
    clmgmtLicenseStatus           INTEGER,  
    clmgmtLicenseStartDate        DateAndTime,  
    clmgmtLicenseEndDate          DateAndTime,  
    clmgmtLicensePeriodUsed       Unsigned32  
}
```

clmgmtLicenseStoreUsed OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the license store that is used for storing this license. This object will have the same value as clmgmtLicenseStoreIndex in clmgmtLicenseStoreInfoEntry

of the license store used."
 ::= { clmgmtLicenseInfoEntry
 1 }

clmgmtLicenseIndex OBJECT-TYPE

SYNTAX ClmgmtLicenseIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a license within
 the device."

::= { clmgmtLicenseInfoEntry 2 }

clmgmtLicenseFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the feature that is
 using or can use this license. A license can be used by
 only one feature. Examples of feature name are: 'IPBASE',
 'ADVIPSERVICE'."

::= { clmgmtLicenseInfoEntry 3 }

clmgmtLicenseFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the feature that is
 using or can use this license. Examples of feature version
 are: '1.0', '2.0'"

::= { clmgmtLicenseInfoEntry 4 }

clmgmtLicenseType OBJECT-TYPE

SYNTAX INTEGER {
 demo(1),
 extension(2),
 gracePeriod(3),
 permanent(4),
 paidSubscription(5),
 evaluationSubscription(6),
 extensionSubscription(7),
 evalRightToUse(8),
 rightToUse(9),
 permanentRightToUse(10)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object identifies type of license. Licenses may have validity period defined in terms of time duration that the license is valid for or it may be defined in terms of actual calendar dates. Subscription licenses are licenses that have validity period defined in terms of calendar dates.

demo(1)

- demo(evaluation license) license.

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

which are purchased by customers. These licenses have a start date and end date associated with them.

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid based on calendar days. These licenses have a start date and an end date

associated with them and are issued once per UDI.

extensionSubscription(7)- Extension subscription licenses are similar to evaluation subscription licenses but these licenses are issued based on customer request. There are no restrictions on the number of licenses available for a UDI.

evalRightToUse(8) - Evaluation Right to use (RTU) license.

rightToUse(9) - Right to use (RTU) license.

permanentRightToUse(10) ? Right To Use license right after it is configured and is valid for the lifetime of the product.
This is a Right To Use license which is not in evaluation mode for a limited time."

::=

{ clmgmtLicenseInfoEntry 5 }

clmgmtLicenseCounted OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current
DESCRIPTION
 "This object indicates whether the license is counted
 license.
 true(1) - counted license
 false(2) - uncounted license"
::= { clmgmtLicenseInfoEntry 6 }

clmgmtLicenseValidityPeriod OBJECT-TYPE

SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This object indicates the time period the license is valid for.
 This object is applicable only if clmgmtLicenseType is demo(1),
 or extension(2) or gracePeriod(3) or evalRightToUse(8). The
 object will return 0 for other license types."
::= { clmgmtLicenseInfoEntry 7 }

clmgmtLicenseValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS
 current
DESCRIPTION
 "This object indicates the time period remaining before the
 license expires or transitions to rightToUse(9) license. This
 object is applicable only if clmgmtLicenseType is demo(1), or
 extension(2) or gracePeriod(3) or evalRightToUse(8). The object
 will contain 0 for other license types."
::= { clmgmtLicenseInfoEntry 8 }

clmgmtLicenseExpiredPeriod OBJECT-TYPE

SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This object indicates the elapsed time period since the license
 expired. This object is applicable only if clmgmtLicenseType
 is demo(1), or extension(2) or gracePeriod(3). Also, this
 value of this object will be valid only after the license
 expires. The object will return 0 for other license types
 or before the license expiry."
::= { clmgmtLicenseInfoEntry 9 }

clmgmtLicenseMaxUsageCount

OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of entities that can use this license. This object is applicable only if clmgmtLicenseCounted is true(1). The entity that is being counted can be anything and it depends on the licensable feature."

::= { clmgmtLicenseInfoEntry 10 }

clmgmtLicenseUsageCountRemaining OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the number of entities that can still use this license. This object is applicable only if clmgmtLicenseCounted is true(1)."

::= { clmgmtLicenseInfoEntry 11 }

clmgmtLicenseEULAStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the user accepted

End User License Agreement for this license.

true(1) - EULA accpeted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

```

        inactive(1),
        notInUse(2),
        inUse(3),
        expiredInUse(4),
        expiredNotInUse(5),
        usageCountConsumed(6)
    }

```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but
not active.

notInUse(2) - license is installed and
available for use.

inUse(3) - the license is being used (by
a feature).

expiredInUse(4) - license is expired but still
being held by the feature.

expiredNotInUse(5) - license is expired and not being
held by any feature.

usageCountConsumed(6) - number of entities using this
licenses has reached the allowed
limit, no new entities are allowed
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object

indicates the start date for a subscription

license. It is optional for subscription lincses to have a
start date associated with them, they may only have an end
date associated with them. This object may be applicable only
when clmgmtLicenseType is paidSubscription(5),
evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is
not applicable."

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license. This object is applicable only when clmgmtLicenseType is paidSubscription(5), evaluationSubscription(6) or extensionSubscription (7). The object will contain an octet string of length 0 when it is not applicable."

```
::= { clmgmtLicenseInfoEntry
16 }
```

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the Right to use (RTU) licenses. This object is applicable for all RTU licenses."

```
::= { clmgmtLicenseInfoEntry 17 }
```

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the image. All the licensable features will have an entry each in this table irrespective of whether they are using any licenses currently. Entries in this table are created by the agent one for each licensable feature in the image. These entries remain in the table permanently and can not

be deleted. Management application can not create or delete entries from this table."

```
::= { clmgmtLicenseInformation 4 }
```

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents a licensable feature."

```
INDEX {
    entPhysicalIndex,
```

```

        clmgmtFeatureIndex
    }
 ::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {
    clmgmtFeatureIndex      Unsigned32,
    clmgmtFeatureName       SnmpAdminString,
    clmgmtFeatureVersion    SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted SnmpAdminString,
    clmgmtFeatureStartDate  DateAndTime,
    clmgmtFeatureEndDate    DateAndTime,
    clmgmtFeaturePeriodUsed Unsigned32
}

```

```

clmgmtFeatureIndex OBJECT-TYPE
SYNTAX      Unsigned32 (1..4294967295)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This object uniquely identifies a licensable feature in
    the device."
 ::= { clmgmtLicensableFeatureEntry 1 }

```

```

clmgmtFeatureName OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE (0..128))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the name of the licensable feature
    in the device. Examples of feature names are: 'IPBASE',
    'ADVIPSERVICE'"
 ::= { clmgmtLicensableFeatureEntry 2 }

```

```

clmgmtFeatureVersion OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE (0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the version of the licensable
    feature in the device. Examples
of feature versions
    are: '1.0' or '2.0'"
 ::= { clmgmtLicensableFeatureEntry 3 }

```

```

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE
SYNTAX      Unsigned32

```

UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

The object will contain 0 if other types of license is used or if the feature does not use any license. If the feature is using multiple licenses, this period will represent the cumulative period remaining from all the licenses used by this feature."

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE
(0..128))
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object represents the entity that is being counted by this feature. Examples of entities are IP Phones, number of sessions etc. This object is only applicable for features that use counting licenses. For other features, this object will return empty string."

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object indicates the license start date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid start date. The start date will be the earliest of the valid start dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid start date then this object will contain an

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime
MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature.

This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this feature have a valid end date then this object will contain an octet string of length 0."

::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains appropriate value for clmgmtDevCredExportActionIndex that can be used to create an entry in clmgmtDevCredExportActionTable. The management application should read this object first and then use this as the value for clmgmtDevCredExportActionIndex to avoid collisions when creating entries in clmgmtDevCredExportActionTable. Following this approach does not guarantee collision free row creation, but will reduce the probability. The collision will happen if two management applications read this object at the same time and attempt to create an entry with this value at the same time. In this case, the management application whose request is processed after the first request will get an error and the process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action.

Management application must create this entry to trigger the export of device credentials from the device to a file.

Once the request completes, the management application should retrieve the values of the objects of interest, and then delete the entry. In order to prevent old entries from clogging the table, entries will be aged out, but an entry will never be deleted within 5 minutes of completion."

::= { clmgmtLicenseDeviceInformation 2 }

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry for each device credential export action that is being executed or was executed recently. The management application triggers the export by creating an entry in this table. This can be done in the following 2 methods

1. CREATE-AND-GO method

Management application sets clmgmtDevCredExportActionStatus to createAndGo(4) and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the action. If the SET request fails, the entry will not be created.

2. CREATE-AND-WAIT method

Management application sets clmgmtDevCredExportActionStatus to createAndWait(5) to create an entry. Management application can set all other required objects to valid values in more than one SNMP SET request. If SET request for any of the objects fails, management application can set just only that object. Once all the required objects are set to valid values, management application triggers action execution by setting clmgmtDevCredExportActionStatus to active(1).

To stop the action from being executed, the management application can delete the entry by setting clmgmtDevCredExportActionStatus

to destroy(6) when clmgmtDevCredCommandState is pending(2).

The status of action execution can be known by querying clmgmtDevCredCommandState. If the action is still in pending(2) or inProgress(3), the management application need to check back again after few seconds. Once the action completes and if status of the action is failed(6), the reason for failure can be retrieved from clmgmtDevCredCommandFailCause.

Entry can be deleted except when clmgmtLicenseAction is set to inProgress(3). All entries in this table are volatile and are cleared on agent reset."

INDEX { clmgmtDevCredExportActionIndex }
::= { clmgmtDevCredExportActionTable 1 }

ClmgmtDevCredExportActionEntry ::= SEQUENCE {
 clmgmtDevCredExportActionIndex Unsigned32,
 clmgmtDevCredEntPhysicalIndex PhysicalIndexOrZero,
 clmgmtDevCredTransferProtocol ClmgmtLicenseTransferProtocol,
 clmgmtDevCredServerAddressType InetAddressType,
 clmgmtDevCredServerAddress InetAddress,
 clmgmtDevCredServerUsername SnmpAdminString,
 clmgmtDevCredServerPassword SnmpAdminString,
 clmgmtDevCredExportFile SnmpAdminString,
 clmgmtDevCredCommand INTEGER,
 clmgmtDevCredCommandState ClmgmtLicenseActionState,
 clmgmtDevCredCommandFailCause INTEGER,
 clmgmtDevCredStorageType
 StorageType,
 clmgmtDevCredRowStatus RowStatus
}

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in clmgmtDevCredExportActionTable. The management application chooses this value by reading clmgmtNextFreeDevCredExportActionIndex while creating an entry in this table. If an entry already exists with this index, the creation of the entry will not continue and error will be returned. The management application should read the value of clmgmtNextFreeDevCredExportActionIndex again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents the entPhysicalIndex of the device for which the device credentials are being retrieved. This object is mainly used in devices where one device is acting as a master and rest of the devices as slaves. The master device is responsible for SNMP communication with the manager. Examples include stackable switches, devices with router processor and line cards.

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }

::= { clmgmtDevCredExportActionEntry 2 }

clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }

::= { clmgmtDevCredExportActionEntry
3 }

clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }

::= { clmgmtDevCredExportActionEntry 4 }

clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the ip address of the server from which the files must be read or written to if clmgmtDevCredTransferProtocol is not none(1) or local(2).

All bits as 0s or 1s for clmgmtDevCredServerAddress are not allowed.

The format of this address depends on the value of the clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying

a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE

SYNTAX INTEGER {
noOp(1),
getDeviceCredentials(2)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the command to be executed.

Command	Remarks

noOp(1)	No operation will be performed.

getDeviceCredentials(2)	Exports device credentials"

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

SYNTAX INTEGER {
none(1),
unknownError(2),
transferProtocolNotSupported(3),
fileServerNotReachable(4),
unrecognizedEntPhysicalIndex(5),
invalidFile(6)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the the reason for device
credentials export operation failure.

The value of this object is valid only when
clmgmtDevCredCommandState is failed(6).

none(1) - action execution has not started yet.

If the action is completed and the
action is successful, then also
none(1) is returned to indicate that
there are no errors.

unknownError(2) - reason for failure is unknown,
operation failed, no operation is
performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex

is not

valid

invalidFile(6) - The target file specified is not valid."

::= { clmgmtDevCredExportActionEntry 11 }

clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the storage type for this conceptual
row. Conceptual rows having the value 'permanent' need not
allow write-access to any columnar objects in the row."

DEFVAL { volatile }

::= { clmgmtDevCredExportActionEntry 12 }

clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the status of this table entry.
Once the entry status is set to active(1), the associated
entry cannot be modified until the action completes
(clmgmtDevCredCommandStatus is set to a value
other than

inProgress(3)). Once the action completes

the only operation possible after this is to delete
the row.

clmgmtDevCredExportFile is a mandatory object to be set when creating this entry."
::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired
clmgmtLicenseExpiryWarning
clmgmtLicenseUsageCountExceeded
clmgmtLicenseUsageCountAboutToExceed
clmgmtLicenseSubscriptionExpiryWarning
clmgmtLicenseSubscriptionExtExpiryWarning
clmgmtLicenseSubscriptionExpired
clmgmtLicenseEvalRTUTransitionWarning
clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled
clmgmtLicenseCleared
clmgmtLicenseRevoked
clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object enables/disables sending following notifications:

```
    clmgmtLicenseNotEnforced"
DEFVAL      { true }
::= { clmgmtLicenseNotifObjects 3 }
```

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion
            }
```

STATUS current

DESCRIPTION

"This notification is sent, when a feature license expires. This notification will be sent continuously every week even after the expiry to alert the management application."

```
::= { ciscoLicenseMgmtMIBNotifs 1 }
```

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureValidityPeriodRemaining
            }
```

STATUS current

DESCRIPTION

"This notification is sent when a license is about to

expire. This notification will go out multiple times.

First notification goes out when expiry day is 4 weeks ahead, second notification when expiry day is 3 weeks ahead, third notification when expiry day is 2 weeks ahead. This notification will go out daily in the last week of license expiry."

```
::= { ciscoLicenseMgmtMIBNotifs 2 }
```

clmgmtLicenseUsageCountExceeded NOTIFICATION-TYPE

```
OBJECTS      {
                clmgmtLicenseFeatureName,
                clmgmtLicenseFeatureVersion,
                clmgmtLicenseMaxUsageCount,
                clmgmtFeatureWhatIsCounted,
            }
```



```

        clmgmtLicenseComments
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when clmgmtLicenseUsageCountRemaining
        has reached clmgmtLicenseMaxUsageCount for a counting license."
    ::= { ciscoLicenseMgmtMIBNotifs 3 }

```

clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtLicenseFeatureName,
        clmgmtLicenseFeatureVersion,
        clmgmtLicenseMaxUsageCount,
        clmgmtLicenseUsageCountRemaining,
        clmgmtFeatureWhatIsCounted,
        clmgmtLicenseComments
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when clmgmtLicenseUsageCountRemaining
        has reached 80% of clmgmtLicenseMaxUsageCount for a counting
        license. This is a warning notification to the management
        application that very soon the maximum count will be reached
        and after that the device will not allow new entities to
        make use of this license."
    ::= { ciscoLicenseMgmtMIBNotifs 4 }

```

clmgmtLicenseInstalled NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtLicenseFeatureName,
        clmgmtLicenseFeatureVersion,

        clmgmtLicenseType,
        clmgmtLicenseComments
    }
    STATUS      current
    DESCRIPTION
        "This notification is sent when a license is installed
        successfully."
    ::= { ciscoLicenseMgmtMIBNotifs 5 }

```

clmgmtLicenseCleared NOTIFICATION-TYPE

```

    OBJECTS      {
        clmgmtLicenseFeatureName,
        clmgmtLicenseFeatureVersion,
        clmgmtLicenseType,
        clmgmtLicenseComments
    }

```

STATUS current

DESCRIPTION

"This notification is sent when a license is cleared successfully."

::= { ciscoLicenseMgmtMIBNotifs 6 }

clmgmtLicenseRevoked NOTIFICATION-TYPE

OBJECTS {

 clmgmtLicenseFeatureName,

 clmgmtLicenseFeatureVersion,

 clmgmtLicenseType,

 clmgmtLicenseComments

 }

STATUS

 current

DESCRIPTION

"This notification is sent when a license is revoked successfully."

::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

OBJECTS {

 clmgmtFeatureName,

 clmgmtFeatureVersion

 }

STATUS current

DESCRIPTION

"This notification is sent when a user accepts End User License Agreement (EULA) for a license."

::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

OBJECTS {

 clmgmtFeatureName,

 clmgmtFeatureVersion

 }

STATUS current

DESCRIPTION

"This notification is sent when a license does not exist for a feature, but the feature is a mandatory feature and it should run. This notification will be sent out periodically to indicate that there is no

license installed for this feature and it needs to be done as soon as possible."

::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

```

OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
STATUS        current
DESCRIPTION
    "This notification is sent when a subscription license of a
    feature is about to expire. This notification will be sent as
    per the following schedule:
    Once a week for the last eight weeks
    Once a day for the last week
    Once a hour for the last day"
::= { ciscoLicenseMgmtMIBNotifs 10 }

```

clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

```

OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
STATUS
current
DESCRIPTION
    "This notification is sent when the subscription license end
    date of a feature is reached but extension period is left. This
    notification will be sent once a day after the license end date
    is reached."
::= { ciscoLicenseMgmtMIBNotifs 11 }

```

clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

```

OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureEndDate
            }
STATUS        current
DESCRIPTION
    "This notification will be sent after a subscription license
    of a feature completely expires. It will be sent once a day
    after the license has completely expired"
::= { ciscoLicenseMgmtMIBNotifs 12 }

```

clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

```

OBJECTS      {
                clmgmtFeatureName,
                clmgmtFeatureVersion,
                clmgmtFeatureValidityPeriodRemaining
            }

```

```

    }
STATUS      current
DESCRIPTION
    "This notification is sent when Evaluation to Right to use (RTU)
    license transition is about to happen. The first notification
    will be sent 10 days before the transition and second
    notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

clmgmtLicenseEvalRTUTransition NOTIFICATION-TYPE
OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion
}
STATUS      current
DESCRIPTION
    "This notification is sent, when a feature license transitions
    from a evaluation to a Right to use (RTU) license."
::= { ciscoLicenseMgmtMIBNotifs 14 }
-- Conformance

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 2 }

ciscoLicenseMgmtCompliance
MODULE-COMPLIANCE
STATUS      deprecated
DESCRIPTION
    "Compliance statement for Cisco license mgmt MIB."
MODULE      -- this module
MANDATORY-GROUPS {
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}

GROUP      clmgmtLicenseStoreInformationGroup
DESCRIPTION

```

```
"This group is mandatory for all devices where
multiple license stores are supported."
::= { ciscoLicenseMgmtCompliances 1 }
```

```
ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE
```

```
STATUS      current
```

```
DESCRIPTION
```

```
"Compliance statement for Cisco license mgmt MIB."
```

```
MODULE      -- this module
```

```
MANDATORY-GROUPS {
```

```
    clmgmtLicenseDeploymentGroup,
    clmgmtLicenseDeviceInformationGroup,
    clmgmtLicenseInformationGroup,
    clmgmtLicensableFeatureInformationGroup,
    clmgmtLicenseDevCredGroup,
    clmgmtLicenseNotificationEnableGroup,
    clmgmtLicenseUsageNotifGroup,
    clmgmtLicenseDeploymentNotifGroup,
    clmgmtLicenseErrorNotifGroup
}
```

```
GROUP      clmgmtLicenseStoreInformationGroup
```

```
DESCRIPTION
```

```
"This group is mandatory for all devices where
multiple license stores are supported."
```

```
GROUP      clmgmtLicenseSubscriptionGroup
```

```
DESCRIPTION
```

```
"This object group is mandatory for all devices
that
support subscription licensing."
```

```
GROUP      clmgmtLicenseSubscriptionUsageNotifGroup
```

```
DESCRIPTION
```

```
"This notification group is mandatory for all devices that
support subscription licensing."
```

```
GROUP      clmgmtLicenseRTUGroup
```

```
DESCRIPTION
```

```
"This object group is mandatory for all devices that
support Right to Use (RTU) licensing."
```

```
GROUP      clmgmtLicenseRTUUsageNotifGroup
```

```
DESCRIPTION
```

```
"This notification group is mandatory for all devices that
support Right to use (RTU) licensing."
```

```
::= { ciscoLicenseMgmtCompliances 2 }
```

-- Units of Conformance

clmgmtLicenseDeploymentGroup OBJECT-GROUP

```
OBJECTS    {
    clmgmtNextFreeLicenseActionIndex,
    clmgmtLicenseActionEntPhysicalIndex,
    clmgmtLicenseActionTransferProtocol,
    clmgmtLicenseServerAddressType,
    clmgmtLicenseServerAddress,
    clmgmtLicenseServerUsername,
    clmgmtLicenseServerPassword,
    clmgmtLicenseFile,
    clmgmtLicenseStore,
    clmgmtLicenseActionLicenseIndex,
    clmgmtLicensePermissionTicketFile,
    clmgmtLicenseRehostTicketFile,
    clmgmtLicenseBackupFile,
    clmgmtLicenseStopOnFailure,
    clmgmtLicenseAction,
    clmgmtLicenseActionState,
    clmgmtLicenseJobQPosition,
    clmgmtLicenseActionFailCause,
    clmgmtLicenseActionStorageType,
    clmgmtLicenseActionRowStatus,
    clmgmtLicenseIndivActionState,
    clmgmtLicenseIndivActionFailCause,
    clmgmtLicenseAcceptEULA,
    clmgmtLicenseEULAFile
}
```

STATUS current

DESCRIPTION

"A collection of objects for performing license deployment
i.e., license installation, clear and revoke"

::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

```
OBJECTS    {
    clmgmtLicenseStoreName,
    clmgmtLicenseStoreTotalSize,
    clmgmtLicenseStoreSizeRemaining
}
```

STATUS current

DESCRIPTION

"A collection of objects that provide information about
license storages in the device."

::= { ciscoLicenseMgmtGroups 2 }

```

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP
OBJECTS      { clmgmtDefaultLicenseStore }
STATUS       current
DESCRIPTION
    "A collection of objects that provide information about
    device level licensing support information in the device."
::= { ciscoLicenseMgmtGroups 3 }

```

```

clmgmtLicenseInformationGroup OBJECT-GROUP
OBJECTS      {
    clmgmtLicenseFeatureName,
    clmgmtLicenseFeatureVersion,
    clmgmtLicenseType,
    clmgmtLicenseCounted,
    clmgmtLicenseValidityPeriod,
    clmgmtLicenseValidityPeriodRemaining,
    clmgmtLicenseExpiredPeriod,
    clmgmtLicenseMaxUsageCount,
    clmgmtLicenseUsageCountRemaining,
    clmgmtLicenseEULAStatus,
    clmgmtLicenseComments,
    clmgmtLicenseStatus
}
STATUS       current
DESCRIPTION
    "A collection of objects that provide information about
    licenses and its state."
::= { ciscoLicenseMgmtGroups 4 }

```

```

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP
OBJECTS      {
    clmgmtFeatureName,
    clmgmtFeatureVersion,

    clmgmtFeatureValidityPeriodRemaining,
    clmgmtFeatureWhatIsCounted
}
STATUS       current
DESCRIPTION
    "A collection of objects that provide information about
    licensable features in the software image."
::= { ciscoLicenseMgmtGroups 5 }

```

```

clmgmtLicenseDevCredGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeDevCredExportActionIndex,
    clmgmtDevCredEntPhysicalIndex,
    clmgmtDevCredTransferProtocol,

```

```

        clmgmtDevCredServerAddressType,
        clmgmtDevCredServerAddress,
        clmgmtDevCredServerUsername,
        clmgmtDevCredServerPassword,
        clmgmtDevCredExportFile,
        clmgmtDevCredCommand,
        clmgmtDevCredCommandState,
        clmgmtDevCredCommandFailCause,

        clmgmtDevCredStorageType,
        clmgmtDevCredRowStatus
    }
STATUS      current
DESCRIPTION
    "A collection of objects for exporting device credentials
    from the device."
::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP
OBJECTS     {
    clmgmtLicenseUsageNotifEnable,
    clmgmtLicenseDeploymentNotifEnable,
    clmgmtLicenseErrorNotifEnable
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling
    (enabling/disabling) license notifications to a management
    application."
::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseExpired,
    clmgmtLicenseExpiryWarning,
    clmgmtLicenseUsageCountExceeded,

    clmgmtLicenseUsageCountAboutToExceed
}
STATUS      current
DESCRIPTION
    "A collection of notifications related to license usage."
::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgmtLicenseInstalled,
    clmgmtLicenseCleared,

```



```

        clmgmtLicenseRevoked,
        clmgmtLicenseEULAAccepted
    }
    STATUS      current
    DESCRIPTION
        "A collection of notifications related to license deployment."
    ::= { ciscoLicenseMgmtGroups 9 }

clmgmtLicenseErrorNotifGroup NOTIFICATION-GROUP
    NOTIFICATIONS { clmgmtLicenseNotEnforced }
    STATUS      current
    DESCRIPTION
        "A collection of notifications related to license errors."
    ::= { ciscoLicenseMgmtGroups 10 }

clmgmtLicenseSubscriptionGroup OBJECT-GROUP
    OBJECTS     {
        clmgmtLicenseStartDate,
        clmgmtLicenseEndDate,
        clmgmtFeatureStartDate,
        clmgmtFeatureEndDate
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects that provide information specific to
        subscription licenses."
    ::= { ciscoLicenseMgmtGroups 11 }

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP
    NOTIFICATIONS {
        clmgmtLicenseSubscriptionExpiryWarning,
        clmgmtLicenseSubscriptionExtExpiryWarning,
        clmgmtLicenseSubscriptionExpired
    }
    STATUS      current
    DESCRIPTION
        "A collection of notifications related to usage of subscription
        licenses."
    ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP
    OBJECTS     {
        clmgmtLicensePeriodUsed,
        clmgmtFeaturePeriodUsed
    }
    STATUS      current
    DESCRIPTION

```

```

    "A collection of objects that provide information specific to
    Right to use (RTU) licenses."
    ::= { ciscoLicenseMgmtGroups 13 }

clmgtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    clmgtLicenseEvalRTUTransitionWarning,
    clmgtLicenseEvalRTUTransition
}
STATUS current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
    ::= { ciscoLicenseMgmtGroups 14 }

END

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF
/*
* Generated by ncsc --mib2yang-std
* Source: newjuniper/JUNIPER-LICENSE-MIB.mib
*/
/*
* This YANG module has been generated by smidump 0.5.0:
*
*   smidump -f yang JUNIPER-LICENSE-MIB
*
* Do not edit. Edit the source file instead!
*/

module JUNIPER-LICENSE-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:JUNIPER-LICENSE-MIB";
    prefix "juniper-license";

    import SNMPv2-TC {
        prefix "snmpv2-tc";
    }

    import ietf-yang-smiv2 {
        prefix "smiv2";
    }

    organization
        "Juniper Networks, Inc.";

```

```

contact
"Juniper Technical Assistance Center
Juniper Networks, Inc.
1133 Innovation Way
Sunnyvale, CA 94089
E-mail: support@juniper.net";

description
"Implementation of enterprise specific MIB
for license commands and configuration.";

revision 2019-06-17 {
description
"Deprecated jnxLicenseKeys.";
}

revision 2016-12-15 {
description
"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired";
}

revision 2010-07-09
{
description
"Initial version.";
}

container JUNIPER-LICENSE-MIB {
config false;

container jnxLicenseSettings {
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";

leaf jnxLicenseRenewBeforExpiration {
type int32;
description
"License renew lead time before expiration in days.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";
}

leaf jnxLicenseRenewInterval {
type int32;
description
"License checking interval in hours.";
smiv2:max-access "read-only";
}
}

```

```

    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";
}

leaf jnxLicenseAutoUpdate {
    type snmpv2-tc:DisplayString;
    description
        "License auto update URL of a license server.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
}
}

container jnxLicenseInstallTable {
    description
        "This table contains installed
feature license information.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

    list jnxLicenseInstallEntry {
        key "jnxLicenseId";
        smiv2:implied "jnxLicenseId";
        description
            "A row of giving installed feature license information.";
        smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

        leaf jnxLicenseId {
            type snmpv2-tc:DisplayString;
            description
                "Installed feature licenses Id.";
            smiv2:max-access "not-accessible";
            smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
        }

        leaf jnxLicenseVersion {
            type int32;
            description
                "License Version information";
            smiv2:max-access "read-only";
            smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.2";
        }

        leaf jnxLicenseDeviceId {
            type snmpv2-tc:DisplayString;
            description
                "License Device Id ";
            smiv2:max-access "read-only";
            smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.3";
        }
    }
}

```

```

    }

leaf jnxLicenseType {
    type enumeration {
        enum "invalid" {
            value "0";
        }
        enum "count-down" {
            value "1";
        }
        enum "date-based" {
            value "2";
        }
        enum "permanent" {
            value "3";
        }
    }
    description
    "License type information";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
}

leaf jnxLicenseKeys {
    type binary;
    status deprecated;
    description
    "***** THIS OBJECT IS DEPRECATED *****"
    "This object is deprecated,
    it displays all the license keys
    in the system.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
}

leaf jnxLicenseKeyType {
    type enumeration
{
    enum "commercial" {
        value "1";
    }
    enum "trial" {
        value "2";
    }
    enum "demo" {
        value "3";
    }
    enum "emergency" {

```

```

        value "4";
    }
    enum "lab" {
        value "5";
    }
    enum "education" {
        value "6";
    }
}
description
    "License key type";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.6";
}
}
}

```

```

container jnxLicenseFeatureListTable {
    description
        "list of features supporting Licensing.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";
}

```

```

list jnxLicenseFeatureListEntry {
    key "jnxLicenseFeatureId";
    description
        "A row of licensed features.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";
}

```

```

leaf jnxLicenseFeatureId {
    type int32;
    description
        "Feature Id to point an entry in this table";
    smiv2:max-access "not-accessible";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
}

```

```

leaf jnxLicenseFeatureName {
    type snmpv2-tc:DisplayString;
    description
        "Feature Name";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
}

```

```

leaf jnxLicenseFeatureDescr {
    type snmpv2-tc:DisplayString;
    description
        "Feature Name";
}

```

```

    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
}

leaf jnxLicenseFeatureLicenseId {
    type snmpv2-tc:DisplayString;
    description
        "Feature License Id";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
}

leaf jnxLicenseFeatureLicenseUsed {
    type int32;
    description

        "Licenses Used";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
}

leaf jnxLicenseFeatureLicenseInstalled {
    type int32;
    description
        "Licenses Installed";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
}

leaf jnxLicenseFeatureLicenseNeeded {
    type int32;
    description
        "Licenses Needed";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
}
}
}

notification jnxLicenseGraceExpired {
    description
        "The SNMP trap that is generated when the license grace period for
        feature identified by jnxLicenseFeatureName is expired";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

    container object-1 {

```

```

leaf jnxLicenseFeatureId {
  type leafref {
    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
  }
}

```

```

leaf jnxLicenseFeatureName {
  type leafref {
    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
  }
}
}

```

```

notification jnxLicenseGraceAboutToExpire {
  description
    "The SNMP trap that is generated when the license grace period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";
}

```

```

container object-1 {

```

```

  leaf jnxLicenseFeatureId {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
    }
  }
}

```

```

  leaf jnxLicenseFeatureName {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
    }
  }
}
}

```

```

notification jnxLicenseAboutToExpire {
  description
    "The SNMP trap that is generated when the license period for
    feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";
}

```

```

container object-1 {

```



```

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

```

```

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

```

```

notification jnxLicenseInfringeCumulative
{
  description
    "The SNMP trap that is generated when the feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";

```

```

  container object-1 {

```

```

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }

```

```

    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
}

```

```

notification jnxLicenseInfringeSingle {
  description
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either
    expired or
    not available.";

```

```

smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

container object-1 {

    leaf jnxLicenseFeatureId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
        }
    }

    leaf jnxLicenseFeatureName {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
        }
    }
}

notification jnxLicenseKeyExpired {
    description
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either expired or
    not available.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";

    container object-1 {

        leaf jnxLicenseFeatureId {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
            }
        }

        leaf jnxLicenseFeatureName {
            type leafref {
                path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
            }
        }
    }

    container object-2 {

        leaf jnxLicenseFeatureId {
            type leafref {

```

```

        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
    }
}

leaf jnxLicenseFeatureLicenseId {
    type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
    }
}

container object-3
{

    leaf jnxLicenseId {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
        }
    }

    leaf jnxLicenseKeyType {
        type leafref {
            path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
        }
    }
}

smiv2:alias "jnxLicenseMIB" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
}

smiv2:alias "jnxLicenseNotifications" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
}

smiv2:alias "jnxLicenseObjects" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
}

smiv2:alias "jnxLicenseInstallObjects" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
}

```

```

smiv2:alias "jnxLicenseSettings" {
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
}

}

module openconfig-license {

    yang-version "1";

    namespace "http://openconfig.net/yang/license";

    prefix "oc-license";

    import openconfig-extensions { prefix oc-ext; }

    organization "OpenConfig working group";

    contact
        "OpenConfig working group
        www.openconfig.net";

    description
        "This module defines configuration and operational
        state data for licenses.";

    oc-ext:openconfig-version "0.2.0";

    revision "2020-04-22" {
        description
            "Make license-data a union of a string or binary.";
        reference "0.2.0";
    }

    revision "2020-01-07" {
        description
            "Initial revision";
        reference "0.1.0";
    }

    // OpenConfig specific extensions for module metadata.
    oc-ext:regexp-posix;
    oc-ext:catalog-organization "openconfig";
    oc-ext:origin "openconfig";

    grouping license-config {
        description
            "Configuration data for license";
    }

```

```

leaf license-id {
  type string;
  description
    "License ID. A string that uniquely identifies
the license. The
  platform should list all the licenses it supports being activated.";
}

leaf license-data {
  type union {
    type binary;
    type string;
  }
  description
    "The contents of the licence (if required) - which may be
    supplied as a binary blob, or a simple string value. If this
    value is considered sensitive, it may be read as an empty value.";
}

leaf active {
  type boolean;
  default false;
  description
    "The activation state of the license.";
}

}

grouping license-state {
  description
    "State data for license";

  leaf description {
    type string;
    description
      "The license description.";
  }

  leaf issue-date {
    type uint64;
    description
      "The date and time at which the license was issued, expressed as the
      number of nanoseconds since the Unix Epoch
      (January 1, 1970, 00:00 UTC).";
  }

  leaf expiration-date

```

```
{
  type uint64;
  description
    "The date and time at which the license will expire, expressed as the
    number of nanoseconds since the Unix Epoch
    (January 1, 1970, 00:00 UTC). Zero if it does not expire.";
}
```

```
leaf in-use {
  type boolean;
  description
    "The license is in use. Different from active. This states that the
    license is effectively being used in addition to being active. If
    license for feature X was activated but feature X is not being used,
    then this should be false.";
}
```

```
leaf expired {
  type boolean;
  description
    "The license has expired.";
}
```

```
leaf valid {
  type boolean;
  description
    "The license is valid. Can be activated in the system or platform.";
}
```

```
}
```

```
grouping licenses-top {
  description
    "Top-level grouping for licenses.";
}
```

```
container licenses {
  description
    "Enclosing container for list of licenses";
}
```

```
list license {
  key "license-id";
  description
    "List of licenses.";
}
```

```
leaf license-id {
  type leafref {
    path "../config/license-id";
  }
}
```

```

        description
            "Reference to license id list key";
    }

    container config {
        description
            "Configuration data for license";

        uses license-config;
    }

    container state {

        config false;

        description
            "Operational state data for license.";

        uses license-config;
        uses license-state;
    }
}

grouping license-top {
    description
        "Top-level for the license model";

    container license {
        description
            "Container for license model";

        uses licenses-top;

    }
}

/*
 * Generated by ncsc --mib2yang-std
 * Source: MIB_SOURCES_POST_PROCESSED/CISCO-IMAGE-LICENSE-MGMT-MIB.mib
 */
/*
 * This YANG module has been generated by smidump 0.5.0:
 *
 *   smidump -f yang CISCO-IMAGE-LICENSE-MGMT-MIB

```

```

*
* Do not edit. Edit the source file instead!
*/

module CISCO-IMAGE-LICENSE-MGMT-MIB {

    namespace "urn:ietf:params:xml:ns:yang:smiv2:CISCO-IMAGE-LICENSE-MGMT-MIB";
    prefix "cisco-image-license-mgmt-mib";

    import ENTITY-MIB {
        prefix "entity-mib";
    }

    import SNMP-FRAMEWORK-MIB {
        prefix "snmp-framework";
    }

    import ietf-yang-smiv2 {
        prefix "smiv2";
    }

    organization
        "Cisco Systems Inc.";

    contact
        "Cisco Systems
        Customer Service
        Postal: 170 W Tasman Drive
        San Jose, CA 95134
        USA
        Tel: +1 800 553 -NETS
        E-mail: cs-snmp@cisco.com";

    description
        "The MIB module for managing the running image level
        of a Cisco device. Cisco's licensing mechanism provides
        flexibility to run a device on a chosen image
        level.
        This mechanism is referred to as image level licensing.
        Image level licensing leverages the universal image
        based licensing solution.

        The image level licensing mechanism works as follows -

        A universal image that contains all levels of software
        packages is loaded on to the device. At boot time, the
        device determines the highest level of license and brings
        up the appropriate software features or subsystems.

```


The user can configure the image level with which the device has to boot. The system will verify whether the appropriate license is available for the configured image level. The image level for the next boot will be determined based on the availability of the license. The following scenarios explain some use-cases of image level licensing:

Scenario 1:

- Customer selects advsecurityk9 based image.
- Manufacturing installs advsecurity license on the device.
- This device will run all features

that are part of the

base advsecurity license.

- Customer upgrades to advipservicesk9 license.
- The next boot level is set to advipservicesk9.
- The device will run advsecurityk9 feature until the next reboot. After reboot the device will run advipservicesk9 features.

Scenario 2:

- Customer selects advipservicesk9 based image.
- Manufacturing installs advipservices and advsecurity license on the device.
- This device will run all features that are part of the base advipservices license.
- No upgrades available for advipservices license.

The user has to accept the End User License Agreement(EULA) before using this MIB to configure the image level.

This MIB should be used in conjunction with CISCO-LICENSE-MGMT-MIB module to achieve the image level licensing functionality.

This MIB module defines objects which provides the different image levels supported by the device and the license required

to enable a particular image level. It also defines objects to let the user configure the required image level. The MIB module contains notification which will be triggered when the user changes the image level for next boot.

The CISCO-LICENSE-MGMT-MIB module should be used to export the EULA and to configure the required license.

This MIB module is defined generically so it can be used for both stand-alone as well as stackable devices. The entPhysicalIndex imported from ENTITY-MIB is used to identify

```

the device uniquely.";

revision 2007-10-16 {
    description
        "Initial version of this MIB module.";
}

typedef BootImageLevel {
    type binary {
        length "0..255";
    }
    description
        "This textual convention is used to define
        the image level.

        If the device is running at advipservices
        image level, then the boot image level will
        be 'advipservices.'.";
}

typedef LicenseNameList
{
    type binary {
        length "0..255";
    }
    description
        "This textual convention is used to define
        the list of license names. If multiple licenses
        are present then this string will contain all
        the licenses seperated by the ',' character.

        If the license required to run a device at
        advipservices image level is advipservices and
        advsecurity, then the license name list will be
        'advipservices,advsecurity.'.";
}

container CISCO-IMAGE-LICENSE-MGMT-MIB {
    config false;

    container ciscoImageLicenseMgmtMIBObjects {
        smiv2:oid "1.3.6.1.4.1.9.9.640.1";

        leaf cilmEULAAccepted {
            type boolean;
            description
                "This object when set to TRUE means that the user has

```

```

        accepted the END USER LICENSE AGREEMENT. This object
        has to be set to TRUE by the user before using the
        objects in the cilmBootImageLevelTable to configure
        the license.";
    smiv2:defval
    "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.3";
}
}

```

```

container cilmNotifCntl {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";

```

```

leaf cilmImageLevelChangedNotif {
    type boolean;
    description
    "Specify whether or not a notification should be
    generated on the detection of change in next boot
    image level.

```

If set to TRUE, cilmBootImageLevelChanged notification will be generated. It is the responsibility of the management entity to ensure that the SNMP administrative model is configured in such a way as to allow the notification to be delivered.";

```

reference
    "See also RFC3413 for explanation that notifications
    are under the ultimate control of the MIB module in
    this document.";
    smiv2:defval "false";
    smiv2:max-access "read-write";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4.1";
}
}

```

```

container cilmBootImageLevelTable {
    description
    "A table that contains the configuration information of
    current and next boot image level. This table contains
    entries for each software module running in an image
    loaded in the device. The software module is identified by
    cilmModuleName and the device is identified by
    entPhysicalIndex.";
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.1";

```

```

list cilmBootImageLevelEntry {
    key "entPhysicalIndex cilmModuleName";

```

description

"An entry in the table for each module containing the list of objects that define the configuration of next boot level. The following information is specified by the objects present in the table.

- Current image level.
- Configured image level for the next boot.
- Actual image level for the next boot.
- License store index for the current license.
- License index of the current license.
- License store index for the next boot license.
- License index of the next boot license.";

smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1";

```
leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}
```

```
leaf cilmModuleName {
  type snmp-framework:SnmpAdminString;
  description
    "This object is used as one of the two indices in
    cilmBootImageLevelTable. This object indicates the module
    name of the software package. There can be multiple
    modules in an image performing specific functionality.
    For example, in a wireless image there can be two modules
    - a base image module and a wireless module.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.1";
}
```

```
leaf cilmCurrentImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the current image level that
    the module is running.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.2";
}
```

```
leaf cilmConfiguredBootImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the configured image level
```

of the module for the next boot.

Note: The configured next boot image level may not be the actual next boot image level. The actual next boot image level is denoted by `cilmNextBootImageLevel` which is determined based on the license availability.";

`smiv2:max-access "read-write";`

`smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.3";`

`}`

`leaf cilmNextBootImageLevel {`

`type`

`cisco-image-license-mgmt-mib:BootImageLevel;`

`description`

"This object indicates the next boot image level. The next boot image level can be different from configured level. The next boot image level is determined based on the availability of required license.";

`smiv2:max-access "read-only";`

`smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.4";`

`}`

`leaf cilmCurrentLicenseStoreIndex {`

`type uint32;`

`description`

"This object indicates the license store index where the currently used license is stored. This object has the same value as `clmgmtLicenseStoreIndex` object and uniquely identifies an entry in `clmgmtLicenseStoreInfoTable` in CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed and device is running base image.";

`smiv2:max-access "read-only";`

`smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.5";`

`}`

`leaf cilmCurrentLicenseIndex {`

`type uint32;`

`description`

"This object indicates the license index of the currently used license. This object has the same value as `clmgmtLicenseIndex` and uniquely identifies an entry in `clmgmtLicenseInfoTable` in CISCO-LICENSE-MGMT-MIB.

Note: The license index can be '0' if no license is installed and device is running base image.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.6";
}

```

```

leaf cilmNextBootLicenseStoreIndex {
  type uint32;
  description
    "This object indicates the license store index where the
    next boot license is stored. This object has the same
    value as clmgmtLicenseStoreIndex object and uniquely
    identifies an entry in clmgmtLicenseStoreInfoTable in

```

CISCO-LICENSE-MGMT-MIB.

Note: The license store index can be '0' if no license is installed for the next boot.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.7";
}

```

```

leaf cilmNextBootLicenseIndex {
  type uint32;
  description
    "This object indicates the license index of the next boot
    license. This object has the same value as clmgmtLicenseIndex
    and uniquely identifies an entry in clmgmtLicenseInfoTable in
    CISCO-LICENSE-MGMT-MIB.

```

Note: The license index can be '0' if no license is installed for the next boot.";

```

smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.1.1.8";
}
}
}

```

```

container cilmImageLevelToLicenseMapTable {
  description
    "This table contains the mapping between different
    image levels of each modules in the
image and the
    license required to run the modules at a particular
    image level. This table can be used to identify the
    different image levels and the appropriate licenses
    required for each.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2";

```

```

list cilmImageLevelToLicenseMapEntry {

```

```

key "entPhysicalIndex cilmModuleName cilmImageLicenseMapIndex";
description
  "An entry in the table containing the following
  information.
  - The image levels at the which the modules can be run.
  - The license required to the run a module at a
  particular image level.
  - The priority of the license.";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1";

leaf entPhysicalIndex {
  type leafref {
    path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
  }
}

leaf cilmModuleName {
  type leafref {

    path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
  }
}

leaf cilmImageLicenseMapIndex {
  type uint32;
  description
    "This is a running index used to identify an entry
    of this table.";
  smiv2:max-access "not-accessible";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.1";
}

leaf cilmImageLicenseImageLevel {
  type cisco-image-license-mgmt-mib:BootImageLevel;
  description
    "This object indicates the image level at which
    a module can be run. A module can be run at
    different image levels. An entry will be created
    in this table for every module and image level
    combination.";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.2";
}

leaf cilmImageLicenseName {

```

```

type cisco-image-license-mgmt-mib:LicenseNameList;
description
"This object indicates the list of licenses needed to
be installed for the module to run at the image level
mentioned by cilmImageLicenseImageLevel object of this
entry.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.3";
}

leaf cilmImageLicensePriority {
type uint32 {
range "1..255";
}
description
"This object indicates the priority of the image level
mentioned by cilmImageLicenseImageLevel object of this
entry. The image level with the highest priority license
will be considered as the default level in the absense of
next boot image level configuration. For example if there
are three licenses l1, l2 and l3 in the ascending order of

priority, then by default l1 will be the level at which the
module will be running. If the next boot level is configured
then the configuration will override the priority. The highest
priority license supports a feature set which is a super set of
all other licenses.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.640.1.2.1.4";
}
}
}
}

notification cilmBootImageLevelChanged {
description
"This notification is triggered when next boot image level
is changed in the management entity. The current and
configured image level are indicated by cilmCurrentImageLevel
and cilmConfiguredBootImageLevel objects respectively.";
smiv2:oid "1.3.6.1.4.1.9.9.640.0.1";

container object-1 {

leaf entPhysicalIndex {
type leafref {
path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";

```



```

    }
}

leaf cilmModuleName {
    type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
    }
}

leaf cilmCurrentImageLevel {
    type leafref {
        path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmCurrentImageLevel";
    }
}

container object-2 {

    leaf entPhysicalIndex {
        type leafref {
            path "/entity-mib:ENTITY-MIB/entity-mib:entPhysicalTable/entity-mib:entPhysicalEntry/entity-
mib:entPhysicalIndex";
        }
    }

    leaf cilmModuleName {
        type leafref {
            path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmModuleName";
        }
    }

    leaf cilmConfiguredBootImageLevel {
        type leafref {
            path "/cisco-image-license-mgmt-mib:CISCO-IMAGE-LICENSE-MGMT-MIB/cisco-image-license-mgmt-
mib:cilmBootImageLevelTable/cisco-image-license-mgmt-mib:cilmBootImageLevelEntry/cisco-image-license-
mgmt-mib:cilmConfiguredBootImageLevel";
        }
    }
}

smiv2:alias "ciscoImageLicenseMgmtMIB" {

```

```

    smiv2:oid "1.3.6.1.4.1.9.9.640";
}

smiv2:alias "ciscoImageLicenseMgmtMIBNotifs" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.0";
}

smiv2:alias "ciscoImageLicenseMgmtMIBObjects" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1";
}

smiv2:alias "cilmNotifCntl" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.1.4";
}

smiv2:alias "ciscoImageLicenseMgmtMIBConform" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2";
}

smiv2:alias "cilmModuleCompliances" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.1";
}

smiv2:alias "cilmModuleGroups" {
    smiv2:oid "1.3.6.1.4.1.9.9.640.2.2";
}

}

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Rob Shakir <robjs@google.com>
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--

```

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--

JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Unsigned32, TimeTicks, IpAddress,
NOTIFICATION-TYPE
FROM SNMPv2-SMI
jnxLicenseMibRoot
FROM JUNIPER-SMI
DisplayString
FROM SNMPv2-TC;

jnxLicenseMIB MODULE-IDENTITY

LAST-UPDATED "201007090000Z"

ORGANIZATION "Juniper Networks, Inc."

CONTACT-INFO

"Juniper Technical Assistance Center
Juniper Networks, Inc.
1194 N. Mathilda Avenue
Sunnyvale, CA 94089
E-mail: support@juniper.net"

DESCRIPTION

"Implementation of enterprise specific MIB
for license commands and configuration."

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

-- *****

-- License table for installed licenses

-- *****

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

```
jnxLicenseInstallEntry OBJECT-TYPE
    SYNTAX      JnxLicenseInstallEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "A row of giving installed
feature license information."
    INDEX        { IMPLIED jnxLicenseId }
    ::= { jnxLicenseInstallTable 1 }
```

```
JnxLicenseInstallEntry ::= SEQUENCE {
    jnxLicenseId      DisplayString,
    jnxLicenseVersion  INTEGER,
    jnxLicenseDeviceId DisplayString,
    jnxLicenseType     INTEGER,
    jnxLicenseKeys     OCTET STRING
}
```

```
jnxLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "Installed feature licenses Id."
    ::= { jnxLicenseInstallEntry 1 }
```

```
jnxLicenseVersion OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Version information"
    ::= { jnxLicenseInstallEntry 2 }
```

```
jnxLicenseDeviceId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License Device Id "
    ::= { jnxLicenseInstallEntry
3 }
```

```
jnxLicenseType OBJECT-TYPE
    SYNTAX      INTEGER { invalid(0), count-down(1), date-based(2),permanent(3) }
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "License type information"
    ::= { jnxLicenseInstallEntry 4 }
```

```
jnxLicenseKeys OBJECT-TYPE
    SYNTAX      OCTET STRING
```

```

MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "License Keys"
::= { jnxLicenseInstallEntry 5 }

-- Feature Listing Table

jnxLicenseFeatureListTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF JnxLicenseFeatureListEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "list of features supporting Licensing."
    ::= { jnxLicenseInstallObjects 2 }

jnxLicenseFeatureListEntry OBJECT-TYPE
    SYNTAX      JnxLicenseFeatureListEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "A row of licensed features."
    INDEX        { jnxLicenseFeatureId
    }
    ::= { jnxLicenseFeatureListTable 1 }

JnxLicenseFeatureListEntry ::= SEQUENCE {
    jnxLicenseFeatureId      INTEGER,
    jnxLicenseFeatureName    DisplayString,
    jnxLicenseFeatureDescr   DisplayString,
    jnxLicenseFeatureLicenseId DisplayString,
    jnxLicenseFeatureLicenseUsed    INTEGER,
    jnxLicenseFeatureLicenseInstalled    INTEGER,
    jnxLicenseFeatureLicenseNeeded    INTEGER
    }

jnxLicenseFeatureId OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION  "Feature Id to point an entry in this table"
    ::= { jnxLicenseFeatureListEntry 1 }

jnxLicenseFeatureName OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION  "Feature Name"
    ::= { jnxLicenseFeatureListEntry 2 }

jnxLicenseFeatureDescr OBJECT-TYPE

```

```

SYNTAX
    DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Feature Name"
::= { jnxLicenseFeatureListEntry 3 }

```

```

jnxLicenseFeatureLicenseId OBJECT-TYPE
    SYNTAX      DisplayString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION  "Feature License Id"
    ::= { jnxLicenseFeatureListEntry 4 }

```

```

jnxLicenseFeatureLicenseUsed  OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION  "Licenses Used"
    ::= { jnxLicenseFeatureListEntry 5 }

```

```

jnxLicenseFeatureLicenseInstalled OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION  "Licenses Installed"
    ::= { jnxLicenseFeatureListEntry 6 }

```

```

jnxLicenseFeatureLicenseNeeded OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION  "Licenses Needed"
    ::= { jnxLicenseFeatureListEntry 7 }

```

```

-- *****
-- License configuration parameters
-- *****

```

```

jnxLicenseRenewBeforExpiration OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION  "License renew lead time before expiration in days."
    ::= { jnxLicenseSettings 1 }

```

jnxLicenseRenewInterval OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License checking interval in hours."

::= { jnxLicenseSettings 2 }

jnxLicenseAutoUpdate OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"License auto update URL of a license server."

::= { jnxLicenseSettings
3 }

```
-- *****  
-- define branches for jnx license traps  
-- *****
```

jnxLicenseGraceExpired NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is expired"

::= { jnxLicenseNotifications 1 }

jnxLicenseGraceAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 2 }

jnxLicenseAboutToExpire NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license period for

feature identified by jnxLicenseFeatureName is about to expire"

::= { jnxLicenseNotifications 3 }

jnxLicenseInfringeCumulative NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the feature is used more times than as specified in number of licenses allowed for feature as identified by jnxLicenseFeatureName"

::= { jnxLicenseNotifications 4 }

jnxLicenseInfringeSingle NOTIFICATION-TYPE

OBJECTS { jnxLicenseFeatureName }

STATUS current

DESCRIPTION

"The SNMP trap that is generated when the license for feature identified by jnxLicenseFeatureName is not valid i.e. either expired or not available."

::= { jnxLicenseNotifications 5 }

END

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1.147 robot-oam-grpc 0.0.0-20210923091523-4e2f9f7191f9

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*/
```

Found in path(s):

```
* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-
4e2f9f7191f92f92679b0d6728f479cb6cfc776a/proto/commands/telemetry.proto
```

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```

Found in path(s):

```
* /oam-grpc-4e2f9f7191f92f92679b0d6728f479cb6cfc776a-zip/oam-grpc-  
4e2f9f7191f92f92679b0d6728f479cb6cfc776a/goprotogen/telemetry.pb.go
```

1.148 nats 1.13.1-0.20211018182449-f2416a8b1483

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1.149 etcd 3.3.10

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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package spec

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

 Name string `json:"name,omitempty"`

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URL string `json:"url,omitempty"`  
}
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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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DNS library in

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1.151 jsonpatch

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1.153 influxdb 1.7.1

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1.155 ghodss-yaml

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1.156 gosnmp 1.32.0

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1.157 murmur 1.1.0

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1.158 gokrb5 8.4.2

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1.159 gogo-protobuf 1.3.2

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Go support for Protocol Buffers - Google's data interchange format

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1.160 uuid 1.3.0

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1.161 py3-contextlib 21.6.0-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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011		

PSF	yes			
3.2	3.1	2011	PSF	yes
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1.162 github.com/antchfx/xmlquery 1.3.9

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1.163 protobuf 1.27.1

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1.164 etcd 3.5.2

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1.165 apk-tools 2.12.7-r3

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1.168 goprotobuf 1.5.2

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1.170 google-uuid 1.3.0

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1.171 bytearraypool 1.0.0

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1.172 go-yaml 2.4.0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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1.175 x-text 0.3.7

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1.176 x-sys 0.0.0-20220114195835- da31bd327af9

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1.177 py3-requests 2.26.0-r1

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1.178 jackc-chunkreader 2.0.1

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1.179 influxdb 1.9.4

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1.180 cachecontrol 0.12.10

1.180.1 Available under license :

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1.181 py3-cachecontrol 0.12.10-r0

1.181.1 Available under license :

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Metadata-Version: 2.1

Name: CacheControl

Version: 0.12.10

Summary: http-lib2 caching for requests

Home-page: <https://github.com/ionrock/cachecontrol>

Author: Eric Larson

Author-email: eric@ionrock.org

License: UNKNOWN

Description: ..

SPDX-FileCopyrightText: SPDX-FileCopyrightText: 2015 Eric Larson

SPDX-License-Identifier: Apache-2.0

```
=====  
CacheControl  
=====
```

```
.. image:: https://img.shields.io/pypi/v/cachecontrol.svg  
   :target: https://pypi.python.org/pypi/cachecontrol  
   :alt: Latest Version
```

```
.. image:: https://travis-ci.org/ionrock/cachecontrol.png?branch=master  
   :target: https://travis-ci.org/ionrock/cachecontrol
```

CacheControl is a port of the caching algorithms in `http-lib2_` for use with `requests_` session object.

It was written because `http-lib2's` better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.

```
Quickstart  
=====
```

```
.. code-block:: python
```

```
import requests
```

```
from cachecontrol import CacheControl
```

```
sess = requests.session()
cached_sess = CacheControl(sess)

response = cached_sess.get('http://google.com')
```

If the URL contains any caching based headers, it will cache the result in a simple dictionary.

For more info, check out the docs_

```
.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/
```

Keywords: requests http caching web

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Web

Environment

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Topic :: Internet :: WWW/HTTP

Requires-Python: >=3.6

Provides-Extra: redis

Provides-Extra: filecache

Found in path(s):

* /cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/PKG-INFO

* /cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO

1.182 prometheus-client 0.2.0

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1.183 sqlite 3.36.0-r0

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Found in path(s):

* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/shell.c

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/*

** CAPI3REF: Configuration Options

** KEYWORDS: {configuration option}

**

** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.

**

** New configuration options may be added in future releases of SQLite.

** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a

** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.

**

** <dl>

** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables

** all mutexing and puts SQLite into a mode where it can only be used

** by a single thread. ^If SQLite

is compiled with

**** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then**

**** it is not possible to change the [threading mode] from its default**

**** value of Single-thread and so [sqlite3_config()] will return**

**** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD**

**** configuration option.</dd>**

**** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>**

**** <dd>There are no arguments to this option. ^This option sets the**

**** [threading mode] to Multi-thread. In other words, it disables**

**** mutexing on [database connection] and [prepared statement] objects.**

**** The application is responsible for serializing access to**

**** [database connections] and [prepared statements]. But other mutexes**

**** are enabled so that SQLite will be safe to use in a multi-threaded**

**** environment as long as no two threads attempt to use the same**

**** [database connection] at the same time. ^If SQLite is compiled with**

**** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option**

then

**** it is not possible to set the Multi-thread [threading mode] and**

**** [sqlite3_config()] will return [SQLITE_ERROR] if called with the**

**** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>**

**** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>**

**** <dd>There are no arguments to this option. ^This option sets the**

**** [threading mode] to Serialized. In other words, this option enables**

**** all mutexes including the recursive**

**** mutexes on [database connection] and [prepared statement] objects.**

**** In this mode (which is the default when SQLite is compiled with**

**** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access**

**** to [database connections] and [prepared statements] so that the**

**** application is free to use the same [database connection] or the**

**** same [prepared statement] in different threads at the same time.**

**** ^If SQLite is compiled with**

**** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then**

**** it is not possible to set the**

Serialized [threading mode] and

**** [sqlite3_config()] will return [SQLITE_ERROR] if called with the**

**** SQLITE_CONFIG_SERIALIZED configuration option.</dd>**

**** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_MALLOC option takes a single argument which is**

**** a pointer to an instance of the [sqlite3_mem_methods] structure.**

**** The argument specifies**

**** alternative low-level memory allocation routines to be used in place of**

**** the memory allocation routines built into SQLite.)^ ^SQLite makes**

**** its own private copy of the content of the [sqlite3_mem_methods] structure**

**** before the [sqlite3_config()] call returns.</dd>**

SQLITE_CONFIG_GETMALLOC `SQLITE_CONFIG_GETMALLOC`
 The `SQLITE_CONFIG_GETMALLOC` option takes a single argument which is a pointer to an instance of the `[sqlite3_mem_methods]` structure. The `[sqlite3_mem_methods]` structure is filled with the currently defined memory allocation routines.)[^] This option can be used to overload the default memory allocation routines with a wrapper that simulations memory allocation failure or tracks memory usage, for example.

SQLITE_CONFIG_SMALL_MALLOC `SQLITE_CONFIG_SMALL_MALLOC`
 The `SQLITE_CONFIG_SMALL_MALLOC` option takes single argument of type `int`, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible. SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off.

SQLITE_CONFIG_MEMSTATUS `SQLITE_CONFIG_MEMSTATUS`
 The `SQLITE_CONFIG_MEMSTATUS` option takes single argument of type `int`, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. [^](When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:

- `[sqlite3_hard_heap_limit64()]`
- `[sqlite3_memory_used()]`
- `[sqlite3_memory_highwater()]`
- `[sqlite3_soft_heap_limit64()]`
- `[sqlite3_status64()]`

[^]Memory allocation statistics are enabled by default unless SQLite is compiled with `[SQLITE_DEFAULT_MEMSTATUS]=0` in which case memory allocation statistics are disabled by default.

SQLITE_CONFIG_SCRATCH `SQLITE_CONFIG_SCRATCH`
 The `SQLITE_CONFIG_SCRATCH` option is no longer used.

SQLITE_CONFIG_PAGECACHE `SQLITE_CONFIG_PAGECACHE`
 The `SQLITE_CONFIG_PAGECACHE` option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation. This configuration option is a no-op if an application-defined page cache implementation is loaded using the `[SQLITE_CONFIG_PCACHE2]`.

**
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
 ** 8-byte aligned memory (pMem), the size of each page cache line (sz),
 ** and the number of cache lines (N).
 ** The sz argument should be the size of the largest database page
 ** (a power of two between 512 and 65536) plus some extra bytes for each
 ** page header. ^The number of extra bytes needed by the page header
 ** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
 ** ^It is harmless, apart from the wasted memory,
 ** for the sz parameter to be larger than necessary. The pMem
 ** argument must be either a NULL pointer or a pointer to an 8-byte
 ** aligned block of memory of at least sz*N bytes, otherwise
 ** subsequent behavior is undefined.
 ** ^When pMem is not NULL, SQLite will strive to use the memory provided
 ** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
 ** a page cache line is larger than sz bytes or if all of the pMem buffer
 ** is exhausted.
 ** ^If pMem is NULL and N is non-zero, then
 each database connection
 ** does an initial bulk allocation for page cache memory
 ** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
 ** of -1024*N bytes if N is negative, . ^If additional
 ** page cache memory is needed beyond what is provided by the initial
 ** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
 ** additional cache line. </dd>
 **
 ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
 ** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
 ** that SQLite will use for all of its dynamic memory allocation needs
 ** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
 ** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
 ** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
 ** [SQLITE_ERROR] if invoked otherwise.
 ** ^There are three arguments to SQLITE_CONFIG_HEAP:
 ** An 8-byte aligned pointer to the memory,
 ** the number of bytes in the memory buffer, and the minimum
 allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
 ** to using its default memory allocator (the system malloc() implementation),
 ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
 ** memory pointer is not NULL then the alternative memory
 ** allocator is engaged to handle all of SQLite's memory allocation needs.
 ** The first pointer (the memory pointer) must be aligned to an 8-byte
 ** boundary or subsequent behavior of SQLite will be undefined.
 ** The minimum allocation size is capped at 2**12. Reasonable values
 ** for the minimum allocation size are 2**5 through 2**8.</dd>
 **
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>

** <dd> ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
 ** pointer to an instance of the [sqlite3_mutex_methods] structure.
 ** The argument specifies alternative low-level mutex routines to be used
 ** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
 ** the
 content of the [sqlite3_mutex_methods] structure before the call to
 ** [sqlite3_config()] returns. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMUTEX option takes a single argument which
 ** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
 ** [sqlite3_mutex_methods]
 ** structure is filled with the currently defined mutex routines.)^
 ** This option can be used to overload the default mutex allocation
 ** routines with a wrapper used to track mutex usage for performance
 ** profiling or testing, for example. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing
 subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
 ** <dd> ^The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
 ** the default size of lookaside memory on each [database connection].
 ** The first argument is the
 ** size of each lookaside buffer slot and the second is the number of
 ** slots allocated to each database connection.)^ ^SQLITE_CONFIG_LOOKASIDE
 ** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
 ** option to [sqlite3_db_config()] can be used to change the lookaside
 ** configuration on individual connections.)^ </dd>
 **
 ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
 ** <dd> ^The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
 ** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
 ** the interface to a custom
 page cache implementation.)^
 ** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
 **
 ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
 ** <dd> ^The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
 ** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
 ** the current page cache implementation into that object.)^ </dd>
 **

SQLITE_CONFIG_LOG `<dt>SQLITE_CONFIG_LOG</dt>`
<dd> The `SQLITE_CONFIG_LOG` option is used to configure the SQLite global [error log].
 ^The `SQLITE_CONFIG_LOG` option takes two arguments: a pointer to a function with a call signature of `void*(*)(void*,int,const char*)`, and a pointer to void. ^If the function pointer is not NULL, it is invoked by `[sqlite3_log()]` to process each logging event. ^If the function pointer is NULL, the `[sqlite3_log()]` interface becomes a no-op.
 ^The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is passed through as the first parameter to the application-defined logger function whenever that function is invoked. ^The second parameter to the logger function is a copy of the first parameter to the corresponding `[sqlite3_log()]` call and is intended to be a [result code] or an [extended result code]. ^The third parameter passed to the logger is log message after formatting via `[sqlite3_snprintf()]`.
 The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface. In a multi-threaded application, the application-defined logger function must be threadsafe. **</dd>**

SQLITE_CONFIG_URI `<dt>SQLITE_CONFIG_URI`
<dd> ^The `SQLITE_CONFIG_URI` option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled. ^If URI handling is globally enabled, all filenames passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`, `[sqlite3_open16()]`
 or
 specified as part of `[ATTACH]` commands are interpreted as URIs, regardless of whether or not the `SQLITE_OPEN_URI` flag is set when the database connection is opened. ^If it is globally disabled, filenames are only interpreted as URIs if the `SQLITE_OPEN_URI` flag is set when the database connection is opened. ^By default, URI handling is globally disabled. The default value may be changed by compiling with the `SQLITE_USE_URI` symbol defined. ^

SQLITE_CONFIG_COVERING_INDEX_SCAN `<dt>SQLITE_CONFIG_COVERING_INDEX_SCAN`
<dd> ^The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer.
 ^The default setting is determined by the `SQLITE_ALLOW_COVERING_INDEX_SCAN` compile-time option, or is "on" if that compile-time option is omitted.
 The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work

** without change even with newer versions of SQLite.
 **

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
 ** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
 ** <dd> These options are obsolete and should not be used by new code.
 ** They are retained for backwards compatibility but are now no-ops.
 ** </dd>
 **

** [[SQLITE_CONFIG_SQLLOG]]
 ** <dt>SQLITE_CONFIG_SQLLOG
 ** <dd>This option is only available if sqlite is compiled with the
 ** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
 ** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
 ** The second should be of type (void*). The callback is invoked by the library
 ** in three separate circumstances, identified by the value passed as the
 **
 fourth parameter. If the fourth parameter is 0, then the database connection
 ** passed as the second argument has just been opened. The third argument
 ** points to a buffer containing the name of the main database file. If the
 ** fourth parameter is 1, then the SQL statement that the third parameter
 ** points to has just been executed. Or, if the fourth parameter is 2, then
 ** the connection being passed as the second parameter is being closed. The
 ** third parameter is passed NULL in this case. An example of using this
 ** configuration option can be seen in the "test_sqllog.c" source file in
 ** the canonical SQLite source tree.</dd>
 **

** [[SQLITE_CONFIG_MMAP_SIZE]]
 ** <dt>SQLITE_CONFIG_MMAP_SIZE
 ** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
 ** that are the default mmap size limit (the default setting for
 ** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
 ** ^The default setting can be overridden by each database connection using
 ** either
 the [PRAGMA mmap_size] command, or by using the
 ** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
 ** will be silently truncated if necessary so that it does not exceed the
 ** compile-time maximum mmap size set by the
 ** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
 ** ^If either argument to this option is negative, then that argument is
 ** changed to its compile-time default.
 **

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
 ** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
 ** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
 ** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
 ** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
 ** that specifies the maximum size of the created heap.
 **

**** [[SQLITE_CONFIG_PCACHE_HDRSZ]]**
**** <dt>SQLITE_CONFIG_PCACHE_HDRSZ**
**** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which**
**** is a pointer to an integer and writes into that integer the number of extra**

 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
**** The amount of extra space required can change depending on the compiler,**
**** target platform, and SQLite version.**

**** [[SQLITE_CONFIG_PMASZ]]**
**** <dt>SQLITE_CONFIG_PMASZ**
**** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which**
**** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded**
**** sorter to that integer. The default minimum PMA Size is set by the**
**** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched**
**** to help with sort operations when multithreaded sorting**
**** is enabled (using the [PRAGMA threads] command) and the amount of content**
**** to be sorted exceeds the page size times the minimum of the**
**** [PRAGMA cache_size] setting and this value.**

**** [[SQLITE_CONFIG_STMTJRNL_SPILL]]**
**** <dt>SQLITE_CONFIG_STMTJRNL_SPILL**
**** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which**
**** becomes the [statement journal] spill-to-disk threshold.**

 [Statement journals] are held in memory until their size (in bytes)
**** exceeds this threshold, at which point they are written to disk.**
**** Or if the threshold is -1, statement journals are always held**
**** exclusively in memory.**
**** Since many statement journals never become large, setting the spill**
**** threshold to a value such as 64KiB can greatly reduce the amount of**
**** I/O required to support statement rollback.**
**** The default value for this setting is controlled by the**
**** [SQLITE_STMTJRNL_SPILL] compile-time option.**

**** [[SQLITE_CONFIG_SORTERREF_SIZE]]**
**** <dt>SQLITE_CONFIG_SORTERREF_SIZE**
**** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter**
**** of type (int) - the new value of the sorter-reference size threshold.**
**** Usually, when SQLite uses an external sort to order records according**
**** to an ORDER BY clause, all fields required by the caller are present in the**
**** sorted records. However, if SQLite determines based on the declared type**
**** of a table column that**
 its values are likely to be very large - larger
**** than the configured sorter-reference size threshold - then a reference**
**** is stored in each sorted record and the required column values loaded**
**** from the database as records are returned in sorted order. The default**
**** value for this option is to never use this optimization. Specifying a**

```

** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
    never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
** /
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
*****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
** /
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**   May you do good and not evil.
**   May you find forgiveness for yourself and forgive others.
**   May you share freely, never taking more than you give.
**
*****
**
** This file
    contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply

```

```

** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory
Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found
in path(s):
* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.c
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**

```

** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutexing and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite
 is compiled with
 ** the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** mutexing on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time. ^If SQLite is compiled with
 ** the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option
 then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Serialized. In other words, this option enables
 ** all mutexes including the recursive
 ** mutexes on [database connection] and [prepared statement] objects.
 ** In this mode (which is the default when SQLite is compiled with
 ** [SQLITE_THREADSafe=1]) the SQLite library will itself serialize access
 ** to [database connections] and [prepared statements] so that the
 ** application is free to use the same [database connection] or the
 ** same [prepared statement] in different threads at the same time.
 ** ^If SQLite is compiled with
 ** the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option then
 ** it is not possible to set the

Serialized [threading mode] and

**** [sqlite3_config()] will return [SQLITE_ERROR] if called with the**

**** SQLITE_CONFIG_SERIALIZED configuration option.</dd>**

**** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_MALLOC option takes a single argument which is**

**** a pointer to an instance of the [sqlite3_mem_methods] structure.**

**** The argument specifies**

**** alternative low-level memory allocation routines to be used in place of**

**** the memory allocation routines built into SQLite.)^ SQLite makes**

**** its own private copy of the content of the [sqlite3_mem_methods] structure**

**** before the [sqlite3_config()] call returns.</dd>**

**** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_GETMALLOC option takes a single argument which**

**** is a pointer to an instance of the [sqlite3_mem_methods] structure.**

**** The [sqlite3_mem_methods]**

**** structure is filled with the currently defined memory allocation routines.)^**

**** This option can**

be used to overload the default memory allocation

**** routines with a wrapper that simulations memory allocation failure or**

**** tracks memory usage, for example. </dd>**

**** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>**

**** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of**

**** type int, interpreted as a boolean, which if true provides a hint to**

**** SQLite that it should avoid large memory allocations if possible.**

**** SQLite will run faster if it is free to make large memory allocations,**

**** but some application might prefer to run slower in exchange for**

**** guarantees about memory fragmentation that are possible if large**

**** allocations are avoided. This hint is normally off.**

**** </dd>**

**** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>**

**** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,**

**** interpreted as a boolean, which enables or disables the collection of**

**** memory allocation statistics. ^When memory allocation**

statistics are

**** disabled, the following SQLite interfaces become non-operational:**

**** **

**** [sqlite3_hard_heap_limit64()]**

**** [sqlite3_memory_used()]**

**** [sqlite3_memory_highwater()]**

**** [sqlite3_soft_heap_limit64()]**

**** [sqlite3_status64()]**

****)^**

**** ^Memory allocation statistics are enabled by default unless SQLite is**

**** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory**

** allocation statistics are disabled by default.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
 ** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
 ** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
 ** that SQLite can use for the database page cache with the default page
 ** cache implementation.
 ** This configuration option is a no-op if an application-defined page
 ** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
 **
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
 ** 8-byte aligned memory (pMem), the size of each page cache line (sz),
 ** and the number of cache lines (N).
 ** The sz argument should be the size of the largest database page
 ** (a power of two between 512 and 65536) plus some extra bytes for each
 ** page header. ^The number of extra bytes needed by the page header
 ** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
 ** ^It is harmless, apart from the wasted memory,
 ** for the sz parameter to be larger than necessary. The pMem
 ** argument must be either a NULL pointer or a pointer to an 8-byte
 ** aligned block of memory of at least sz*N bytes, otherwise
 ** subsequent behavior is undefined.
 ** ^When pMem is not NULL, SQLite will strive to use the memory provided
 ** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
 ** a page cache line is larger than sz bytes or if all of the pMem buffer
 ** is exhausted.
 ** ^If pMem is NULL and N is non-zero, then
 each database connection
 ** does an initial bulk allocation for page cache memory
 ** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
 ** of -1024*N bytes if N is negative, . ^If additional
 ** page cache memory is needed beyond what is provided by the initial
 ** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
 ** additional cache line. </dd>
 **
 ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
 ** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
 ** that SQLite will use for all of its dynamic memory allocation needs
 ** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
 ** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
 ** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
 ** [SQLITE_ERROR] if invoked otherwise.
 ** ^There are three arguments to SQLITE_CONFIG_HEAP:
 ** An 8-byte aligned pointer to the memory,

** the number of bytes in the memory buffer, and the minimum allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the memory pointer is not NULL then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs. The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined. The minimum allocation size is capped at 2**12. Reasonable values for the minimum allocation size are 2**5 through 2**8.</dd>
 **
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The argument specifies alternative low-level mutex routines to be used in place of the mutex routines built into SQLite.)^ ^SQLite makes a copy of the content of the [sqlite3_mutex_methods] structure before the call to [sqlite3_config()] returns. ^If SQLite is compiled with the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMUTEX option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The [sqlite3_mutex_methods] structure is filled with the currently defined mutex routines.)^ This option can be used to overload the default mutex allocation routines with a wrapper used to track mutex usage for performance profiling or testing, for example. ^If SQLite is compiled with the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
 ** <dd> ^The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine the default size of lookaside memory on each [database connection]. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection.)^ ^The SQLITE_CONFIG_LOOKASIDE sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE] option to [sqlite3_db_config()] can be used to change the lookaside configuration on individual connections.)^ </dd>

SQLITE_CONFIG_PCACHE2 `<dt>SQLITE_CONFIG_PCACHE2</dt>`
<dd> `^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is`
a pointer to an [sqlite3_pcache_methods2] object. This object specifies
the interface to a custom
page cache implementation.)^
SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>

SQLITE_CONFIG_GETPCACHE2 `<dt>SQLITE_CONFIG_GETPCACHE2</dt>`
<dd> `^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which`
is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
the current page cache implementation into that object.)^ </dd>

SQLITE_CONFIG_LOG `<dt>SQLITE_CONFIG_LOG</dt>`
<dd> The `SQLITE_CONFIG_LOG` option is used to configure the SQLite
global [error log].
(^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
function with a call signature of `void (*)(void*,int,const char*)`,
and a pointer to void. ^If the function pointer is not NULL, it is
invoked by [sqlite3_log()] to process each logging event. ^If the
function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
^The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is
passed through as the first parameter
to the application-defined logger
function whenever that function is invoked. ^The second parameter to
the logger function is a copy of the first parameter to the corresponding
[sqlite3_log()] call and is intended to be a [result code] or an
[extended result code]. ^The third parameter passed to the logger is
log message after formatting via [sqlite3_snprintf()].
The SQLite logging interface is not reentrant; the logger function
supplied by the application must not invoke any SQLite interface.
In a multi-threaded application, the application-defined logger
function must be threadsafe. </dd>

SQLITE_CONFIG_URI `<dt>SQLITE_CONFIG_URI`
<dd>`^(The SQLITE_CONFIG_URI option takes a single argument of type int.`
If non-zero, then URI handling is globally enabled. If the parameter is zero,
then URI handling is globally disabled.)^ ^If URI handling is globally
enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
[sqlite3_open16()]
or
specified as part of [ATTACH] commands are interpreted as URIs, regardless
of whether or not the [SQLITE_OPEN_URI] flag is set when the database
connection is opened. ^If it is globally disabled, filenames are
only interpreted as URIs if the `SQLITE_OPEN_URI` flag is set when the
database connection is opened. ^By default, URI handling is globally
disabled. The default value may be changed by compiling with the
[SQLITE_USE_URI] symbol defined.)^

****** `[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]` <dt>`SQLITE_CONFIG_COVERING_INDEX_SCAN`
****** <dd>^The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer
****** argument which is interpreted as a boolean in order to enable or disable
****** the use of covering indices for full table scans in the query optimizer.
****** ^The default setting is determined
****** by the `[[SQLITE_ALLOW_COVERING_INDEX_SCAN]]` compile-time option, or is "on"
****** if that compile-time option is omitted.
****** The ability to disable the use of covering indices
 for full table scans
****** is because some incorrectly coded legacy applications might malfunction
****** when the optimization is enabled. Providing the ability to
****** disable the optimization allows the older, buggy application code to work
****** without change even with newer versions of SQLite.

****** `[[SQLITE_CONFIG_PCACHE]]` `[[SQLITE_CONFIG_GETPCACHE]]`
****** <dt>`SQLITE_CONFIG_PCACHE` and `SQLITE_CONFIG_GETPCACHE`
****** <dd> These options are obsolete and should not be used by new code.
****** They are retained for backwards compatibility but are now no-ops.
****** </dd>

****** `[[SQLITE_CONFIG_SQLLOG]]`
****** <dt>`SQLITE_CONFIG_SQLLOG`
****** <dd>This option is only available if sqlite is compiled with the
****** `[[SQLITE_ENABLE_SQLLOG]]` pre-processor macro defined. The first argument should
****** be a pointer to a function of type `void(*)(void*,sqlite3*,const char*, int)`.
****** The second should be of type `(void*)`. The callback is invoked by the library
****** in three separate circumstances, identified by the value passed as the

 fourth parameter. If the fourth parameter is 0, then the database connection
****** passed as the second argument has just been opened. The third argument
****** points to a buffer containing the name of the main database file. If the
****** fourth parameter is 1, then the SQL statement that the third parameter
****** points to has just been executed. Or, if the fourth parameter is 2, then
****** the connection being passed as the second parameter is being closed. The
****** third parameter is passed NULL in this case. An example of using this
****** configuration option can be seen in the "test_sqllog.c" source file in
****** the canonical SQLite source tree.</dd>

****** `[[SQLITE_CONFIG_MMAP_SIZE]]`
****** <dt>`SQLITE_CONFIG_MMAP_SIZE`
****** <dd>^`SQLITE_CONFIG_MMAP_SIZE` takes two 64-bit integer (`sqlite3_int64`) values
****** that are the default mmap size limit (the default setting for
****** `[[PRAGMA mmap_size]]`) and the maximum allowed mmap size limit.
****** ^The default setting can be overridden by each database connection using
****** either
 the `[[PRAGMA mmap_size]]` command, or by using the
****** `[[SQLITE_FCNTL_MMAP_SIZE]]` file control. ^The maximum allowed mmap size

** will be silently truncated if necessary so that it does not exceed the
 ** compile-time maximum mmap size set by the
 ** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
 ** ^If either argument to this option is negative, then that argument is
 ** changed to its compile-time default.
 **
 ** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
 ** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
 ** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
 ** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
 ** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
 ** that specifies the maximum size of the created heap.
 **
 ** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
 ** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
 ** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
 ** is a pointer to an integer and writes into that integer the number of extra
 **
 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
 ** The amount of extra space required can change depending on the compiler,
 ** target platform, and SQLite version.
 **
 ** [[SQLITE_CONFIG_PMASZ]]
 ** <dt>SQLITE_CONFIG_PMASZ
 ** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
 ** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
 ** sorter to that integer. The default minimum PMA Size is set by the
 ** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
 ** to help with sort operations when multithreaded sorting
 ** is enabled (using the [PRAGMA threads] command) and the amount of content
 ** to be sorted exceeds the page size times the minimum of the
 ** [PRAGMA cache_size] setting and this value.
 **
 ** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
 ** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
 ** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
 ** becomes the [statement journal] spill-to-disk threshold.
 **
 [Statement journals] are held in memory until their size (in bytes)
 ** exceeds this threshold, at which point they are written to disk.
 ** Or if the threshold is -1, statement journals are always held
 ** exclusively in memory.
 ** Since many statement journals never become large, setting the spill
 ** threshold to a value such as 64KiB can greatly reduce the amount of
 ** I/O required to support statement rollback.
 ** The default value for this setting is controlled by the
 ** [SQLITE_STMTJRNL_SPILL] compile-time option.
 **

```

** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that
    its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
    never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
** </dl>
**/

```

Found in path(s):

* /sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.h

1.184 prometheus-common 0.30.0

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1.186 py3-msgpack 1.0.2-r1

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1.187 busybox 1.34.1-r5

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1.188 py3-distlib 0.3.3-r0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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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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1.189 x-sys 0.0.0-20211216021012-1d35b9e2eb4e

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1.190 pax-utils 1.3.3-r0

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1.192 supervisor 4.2.0

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1.193 pam 1.5.2-r0

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1.194 py3-setuptools 52.0.0-r4

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1.195 py3-ordered-set 4.0.2-r2

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1.196 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.197 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.199 jcmturner-dnsutils 2.0.0

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1.200 Idns 1.7.2_git20210911-r1

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1.201 python-requests 2.26.0

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1.202 lumberjack 2.0.0

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1.203 py3-lockfile 0.12.2-4.ph4

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1.204 hashicorp-uuid 1.0.2

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1.212 py3-progress 1.6-r0

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1.213 fsnotify 1.5.1

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1.214 go.uber.org/atom 1.7.0

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1.215 globalsign-mgo 0.0.0-20181015135952-eeefdec41b8

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mgo - MongoDB driver for Go

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1.216 perks 1.0.1

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1.218 influxdb 1.9.3

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1.219 libc6-compat 1.2.2-r7

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1.220 mpdecimal 2.5.1-r1

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1.221 python-pip 20.3.4

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
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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
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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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

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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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1.222 py3-colorama 0.4.4-r1

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1.223 profile 1.6.0

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1.224 iputils 20210722-r0

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1.226 netcat-openbsd 1.130-r3

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1.227 jcmturner-gokrb 8.4.2

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1.229 distlib 0.3.3

1.229.1 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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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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=====
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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.

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1.237 progress 1.6

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1.238 go-immutable-radix 1.3.1

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@item

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@item

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cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@heading Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@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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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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Version 2.1, February 1999

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest

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the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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src/rmd160.c

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Files:

man/rmd160.3

man/sha1.3

man/sha2.3

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1.243 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.244 andybalholm-brotli 1.0.2

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1.245 ca-certificates 20211220-r0

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1.246 prometheus-procfs 0.0.11

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1.247 deckarep-golang-set 1.7.1

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1.248 sqlx 1.3.4

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1.249 golang-lru 0.5.4

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1.250 spaolacci-murmur3 1.1.0

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1.251 py3-packaging 20.9-r1

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1.252 curl 7.80.0-r1

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1.253 prometheus-client 1.12.1

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1.254 zap 1.17.0

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1.255 etcd-client-pkg 3.5.2

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1.256 libffi 3.4.2-r1

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1.257 jcmturner-gofork 1.0.0

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1.258 golang-snappy 0.0.4

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1.259 antchfx-xpath 1.2.0

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1.260 lockfile 0.12.2

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1.261 alpine-keys 2.4-r1

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1.262 github.com/dlintw/goconf 0.0.0-20120228082610-dcc070983490

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Metadata-Version: 1.1

Name: mimeparse

Version: 0.1.3

Author: Joe Gregorio

Author-email: joe@bitworking.org

Maintainer: Joe Gregorio

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Home-page: <http://code.google.com/p/mimeparse/>

Download-url: <http://code.google.com/p/mimeparse/downloads/list>

Summary: mimeparse

License: MIT License

Description: A module provides basic functions for parsing mime-type names and matching them against a list of media-ranges.

Keywords: python mime-type

Platform: any

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1.263 py3-pip 20.3.4-r1

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Any executables

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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:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.267 go-uber-org-multierr 1.6.0

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1.270 gogoprotobuf 1.3.2

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1.271 py3-idna 3.3-r0

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1.272 semver 3.5.1+incompatible

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1.273 jackc-pgtype 1.10.0

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1.274 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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1.275 py3-distro 1.6.0-r0

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1.276 jcmtturner-aescts 2.0.0

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1.278 py3-retrying 1.3.3-r2

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1.279 py3-appdirs 1.4.4-r2

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1.280 musl 1.2.2-r7

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1.281 htop 3.1.1-r0

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1.283 github.com/astaxie/beego 1.12.3

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1.284 jackc-pgx 4.15.0

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1.285 gdbm 1.22-r0

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1.286 gettext 0.21-r0

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@heading TERMS AND

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@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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it under the terms of the GNU General Public License as published by
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
@end example

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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.

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.287 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.288 py3-html5lib 1.1-r1

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1.289 prometheus-common 0.32.1

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1.290 markupsafe 2.1.1

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1.291 go-zookeeper 0.0.0-20201211165307-7117e9ea2414

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1.292 tre 0.8.0

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1.293 python-certifi 2020.12.5

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.294 shadow 4.8.1-r1

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

1.296 py3-certifi 2020.12.5-r1

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.297 jinja2 2.11.2

1.297.1 Available under license :

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1.298 pierrec-lz4 2.6.1+incompatible

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1.299 libproc 3.3.17-r0

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1.300 jackc-pgio 1.0.0

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1.301 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.302 jackc-pgconn 1.11.0

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1.303 json-iterator-go 1.1.10

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1.304 go-resiliency 1.2.0

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1.305 libstdc++ 10.3.1_git20211027-r0

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1.308 sarama 1.30.0

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1.309 log-rotate 3.18.1-r3

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include/bsd/sys/time.h
include/bsd/timeconv.h
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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
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man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
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man/fmtcheck.3bsd

man/humanize_number.3bsd

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man/strtonum.3bsd

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src/arc4random_linux.h

src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/freezero.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c

src/getentropy_hurd.c

src/getentropy_linux.c

src/getentropy_osx.c

src/getentropy_solaris.c

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1.313 py3-urllib 1.26.7-r0

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1.314 jackc-pgproto 2.2.0

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1.315 msgpack 1.0.2

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1.316 libcap 2.61-r0

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1.324 gopkg.in/urfave/cli.v1 1.20.0

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1.325 nghttp2 1.46.0-r0

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1.326 python 3.9.7-r4

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=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.327 py3-six 1.16.0-r0

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1.328 fasthttp 1.30.0

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1.332 coreos-semver 0.3.0

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1.333 python-pip 3.10.0-2.ph4

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now		
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1.340 distro 1.6.0

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1.342 py3-lockfile 0.12.2-r4

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1.343 nkeys 0.3.0

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1.344 x-term 0.0.0-20210927222741-03f44c2211

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1.345 prometheus-client 0.0.0-20170424191319-d01fd6222241

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1.346 semver 3.5.1+incompatible

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1.347 zlib 1.2.12-r1

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022
```

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

```
*/
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
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*/
```

1.348 libunistring 0.9.10-r1

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1.349 spew 1.1.1

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1.352 drill 1.7.2_git20210911-r1

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1.353 jackc-pgpassfile 1.0.0

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1.354 contextlib2 21.6.0

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A. HISTORY OF THE SOFTWARE

=====

contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011		
PSF	yes			
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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Python/Jython

1.355 pq 1.10.4

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```
//go:build go1.10
// +build go1.10
```

```
package pq
```

```
import (
    "context"
    "database/sql/driver"
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
```



```

func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
}

```

```
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}  
}
```

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