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## Contents

### **1.1 golang-protobuf-extensions 1.0.1**

1.1.1 Available under license

### **1.2 coreos-semver 0.3.0**

1.2.1 Available under license

### **1.3 golang-lru 0.5.3**

1.3.1 Available under license

### **1.4 nuid 1.0.1**

1.4.1 Available under license

### **1.5 bytebufferpool 1.0.0**

1.5.1 Available under license

### **1.6 nose 1.3.7**

1.6.1 Available under license

### **1.7 queue 1.1.0**

1.7.1 Available under license

### **1.8 robfig-cron 3.0.1**

1.8.1 Available under license

### **1.9 gorilla 1.8.0**

1.9.1 Available under license

### **1.10 inotify 0.2.10**

1.10.1 Available under license

### **1.11 jackc-chunkreader 2.0.1**

1.11.1 Available under license

### **1.12 dlintw-goconf 0.0.0-20120228082610-dcc070983490**

1.12.1 Available under license

### **1.13 jackc-pgpassfile 1.0.0**

1.13.1 Available under license

## **1.14 blang-semver 3.5.1+incompatible**

1.14.1 Available under license

## **1.15 jackc-pgio 1.0.0**

1.15.1 Available under license

## **1.16 driver-postgres 1.0.8**

1.16.1 Available under license

## **1.17 jcmtturner-dnsutils 1.0.1**

1.17.1 Available under license

## **1.18 jackc-pgconn 1.8.0**

1.18.1 Available under license

## **1.19 jcmtturner-gofork 1.0.0**

1.19.1 Available under license

## **1.20 jackc-pgx 4.10.1**

1.20.1 Available under license

## **1.21 jackc-pgtype 1.6.2**

1.21.1 Available under license

## **1.22 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b**

1.22.1 Available under license

## **1.23 inflection 1.0.0**

1.23.1 Available under license

## **1.24 gorm-io/gorm 1.20.12**

1.24.1 Available under license

## **1.25 jackc-pgproto 2.0.6**

1.25.1 Available under license

## **1.26 antchfx-xmlquery 1.3.4**

1.26.1 Available under license

## **1.27 jcmtturner-gokrb 7.5.0**

1.27.1 Available under license

## **1.28 antchfx-xpath 1.1.10**

1.28.1 Available under license

## **1.29 xi2-xz 0.0.0-20171230120015-48954b6210f8**

1.29.1 Available under license

## **1.30 rsc.io-sampler 1.3.0**

1.30.1 Available under license

## **1.31 karalabe-cookiejar 1.0.0-20141109175019-e1490cae028c**

1.31.1 Available under license

## **1.32 rsc.io-quote 1.5.2**

1.32.1 Available under license

## **1.33 modern-go-reflect2 1.0.1**

- 1.33.1 Available under license
- 1.34 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd**
  - 1.34.1 Available under license
- 1.35 jcmtturner-rpc 2.0.3**
  - 1.35.1 Available under license
- 1.36 jcmtturner-aescts 2.0.0**
  - 1.36.1 Available under license
- 1.37 jcmtturner-dnsutils 2.0.0**
  - 1.37.1 Available under license
- 1.38 go-systemd 22.3.2**
  - 1.38.1 Available under license
- 1.39 json-iterator-go 1.1.11**
  - 1.39.1 Available under license
- 1.40 zap 1.17.0**
  - 1.40.1 Available under license
- 1.41 numcpus 0.2.1**
  - 1.41.1 Available under license
- 1.42 go-sysconf 0.3.4**
  - 1.42.1 Available under license
- 1.43 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475**
  - 1.43.1 Available under license
- 1.44 rardecode 1.1.0**
  - 1.44.1 Available under license
- 1.45 urfave-cli 1.20.0**
  - 1.45.1 Available under license
- 1.46 kylelemons-godebug 1.1.0**
  - 1.46.1 Available under license
- 1.47 prometheus-procfs 0.7.3**
  - 1.47.1 Available under license
- 1.48 globasign-mgo 0.0.0-20181015135952-eeefdecb41b8**
  - 1.48.1 Available under license
- 1.49 mgo 0.0.0-20181015135952-eeefdecb41b8**
  - 1.49.1 Available under license
- 1.50 profile 1.6.0**
  - 1.50.1 Available under license
- 1.51 golang-snappy 0.0.4**
  - 1.51.1 Available under license
- 1.52 pierrec-lz4 2.6.1+incompatible**
  - 1.52.1 Available under license

### **1.53 lumberjack 2.0.0**

1.53.1 Available under license

### **1.54 sqlx 1.3.4**

1.54.1 Available under license

### **1.55 golang-set 1.7.1**

1.55.1 Available under license

### **1.56 prometheus-common 0.32.1**

1.56.1 Available under license

### **1.57 alpine-keys 2.4-r1**

1.57.1 Available under license

### **1.58 antchfx-xpath 1.2.0**

1.58.1 Available under license

### **1.59 go-immutable-radix 1.3.1**

1.59.1 Available under license

### **1.60 lib-pq 1.10.4**

1.60.1 Available under license

### **1.61 jackc-pgproto 2.2.0**

1.61.1 Available under license

### **1.62 gopkg.in/xmlpath 2.0.0-20150820204837-860cbeca3ebc**

1.62.1 Available under license

### **1.63 archiver 3.5.1**

1.63.1 Available under license

### **1.64 etcd-client 3.5.2**

1.64.1 Available under license

### **1.65 etcd-client-pkg 3.5.2**

1.65.1 Available under license

### **1.66 etcd 3.5.2**

1.66.1 Available under license

### **1.67 antchfx-xmlquery 1.3.9**

1.67.1 Available under license

### **1.68 andybalholm-brotli 1.0.4**

1.68.1 Available under license

### **1.69 klauspost-compress 1.15.0**

1.69.1 Available under license

### **1.70 jackc-pgtype 1.10.0**

1.70.1 Available under license

### **1.71 jackc-pgx 4.15.0**

1.71.1 Available under license

### **1.72 jackc-pgconn 1.11.0**

- 1.72.1 Available under license
- 1.73 jinja2 3.1.2**
  - 1.73.1 Available under license
- 1.74 prometheus-client 1.12.1**
  - 1.74.1 Available under license
- 1.75 groupcache 0.0.0-20210331224755-41bb18bfe9da**
  - 1.75.1 Available under license
- 1.76 logrus 1.8.1**
  - 1.76.1 Available under license
- 1.77 go-resiliency 1.2.0**
  - 1.77.1 Available under license
- 1.78 groupcache 0.0.0-20200121045136-8c9f03a8e57e**
  - 1.78.1 Available under license
- 1.79 gojsonschema 1.2.0**
  - 1.79.1 Available under license
- 1.80 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f**
  - 1.80.1 Available under license
- 1.81 influxdb 1.8.0**
  - 1.81.1 Available under license
- 1.82 now 1.1.5**
  - 1.82.1 Available under license
- 1.83 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b**
  - 1.83.1 Available under license
- 1.84 prometheus-client 1.11.1**
  - 1.84.1 Available under license
- 1.85 now 1.1.1**
  - 1.85.1 Available under license
- 1.86 go-zookeeper 0.0.0-20201211165307-7117e9ea2414**
  - 1.86.1 Available under license
- 1.87 hazelcast-hazelcast-go-client 1.2.0**
  - 1.87.1 Available under license
- 1.88 gorm-io/gorm 1.23.5**
  - 1.88.1 Available under license
- 1.89 driver-postgres 1.3.5**
  - 1.89.1 Available under license
- 1.90 klauspost-compress 1.15.9**
  - 1.90.1 Available under license
- 1.91 lib-pq 1.10.5**
  - 1.91.1 Available under license

- 1.92 nats 1.13.1-0.20211018182449-f2416a8b1483**
  - 1.92.1 Available under license
- 1.93 go.uber.org/atomic 1.10.0**
  - 1.93.1 Available under license
- 1.94 jackc-pgproto 2.3.1**
  - 1.94.1 Available under license
- 1.95 jackc-pgconn 1.13.0**
  - 1.95.1 Available under license
- 1.96 jackc-pgtype 1.12.0**
  - 1.96.1 Available under license
- 1.97 jackc-pgx 4.17.2**
  - 1.97.1 Available under license
- 1.98 nats.go 1.13.1-0.20211018182449-f2416a8b1483**
  - 1.98.1 Available under license
- 1.99 sarama 1.30.0**
  - 1.99.1 Available under license
- 1.100 gopsutil 3.21.5**
  - 1.100.1 Available under license
- 1.101 beego-beego 2.0.5**
  - 1.101.1 Available under license
- 1.102 golang-lru 0.5.1**
  - 1.102.1 Available under license
- 1.103 openconfig-gnmi 0.0.0-20220920173703-480bf53a74d2**
  - 1.103.1 Available under license
- 1.104 zlib 1.2.13-r1**
  - 1.104.1 Available under license
- 1.105 prometheus-client-model 0.2.0**
  - 1.105.1 Available under license
- 1.106 perks 1.0.1**
  - 1.106.1 Available under license
- 1.107 packaging 23.0**
  - 1.107.1 Available under license
- 1.108 antlr-antlr4-runtime-go-antlr 1.4.10**
  - 1.108.1 Available under license
- 1.109 gogo-protobuf 1.3.2**
  - 1.109.1 Available under license
- 1.110 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21**
  - 1.110.1 Available under license
- 1.111 fasthttp 1.40.0**

- 1.111.1 Available under license
- 1.112 packaging 23.1**
  - 1.112.1 Available under license
- 1.113 readline 8.2.1-r1**
  - 1.113.1 Available under license
- 1.114 libffi 3.4.4-r2**
  - 1.114.1 Available under license
- 1.115 mpdecimal 2.5.1-r2**
  - 1.115.1 Available under license
- 1.116 sqlite 3.41.2-r2**
  - 1.116.1 Available under license
- 1.117 expat 2.5.0-r1**
  - 1.117.1 Available under license
- 1.118 libidn 2.3.4-r1**
  - 1.118.1 Available under license
- 1.119 gdbm 1.23-r1**
  - 1.119.1 Available under license
- 1.120 bzip2 1.0.8-r5**
  - 1.120.1 Available under license
- 1.121 libunistring 1.1-r1**
  - 1.121.1 Available under license
- 1.122 cpp 12.2.1\_git20220924-r10**
  - 1.122.1 Available under license
- 1.123 libbsd 0.11.7-r1**
  - 1.123.1 Available under license
- 1.124 popt 1.19-r2**
  - 1.124.1 Available under license
- 1.125 libmd 1.0.4-r2**
  - 1.125.1 Available under license
- 1.126 brotli 1.0.9-r14**
  - 1.126.1 Available under license
- 1.127 ldns 1.8.3-r2**
  - 1.127.1 Available under license
- 1.128 pam 1.5.2-r10**
  - 1.128.1 Available under license
- 1.129 pax-utils 1.3.7-r1**
  - 1.129.1 Available under license
- 1.130 pcre 10.42-r1**
  - 1.130.1 Available under license



- 1.131 netcat-openbsd 1.219-r1**
  - 1.131.1 Available under license
- 1.132 iputils 20221126-r2**
  - 1.132.1 Available under license
- 1.133 python-setuptools 67.7.2**
  - 1.133.1 Available under license
- 1.134 ca-certificates 20230506-r0**
  - 1.134.1 Available under license
- 1.135 ncurses 6.4\_p20230506-r0**
  - 1.135.1 Available under license
- 1.136 xz 5.4.3-r0**
  - 1.136.1 Available under license
- 1.137 apk-tools 2.14.0-r2**
  - 1.137.1 Available under license
- 1.138 py3-pip 23.1.2-r0**
  - 1.138.1 Available under license
- 1.139 wget 1.21.4-r0**
  - 1.139.1 Available under license
- 1.140 skalibs 2.13.1.1-r1**
  - 1.140.1 Available under license
- 1.141 utmps 0.1.2.1-r1**
  - 1.141.1 Available under license
- 1.142 attr 2.5.1-r4**
  - 1.142.1 Available under license
- 1.143 acl 2.3.1-r3**
  - 1.143.1 Available under license
- 1.144 coreutils 9.3-r1**
  - 1.144.1 Available under license
- 1.145 alpine-baselayout 3.4.3-r1**
  - 1.145.1 Available under license
- 1.146 golang-glog 1.1.2**
  - 1.146.1 Available under license
- 1.147 tzdata 2023c-r1**
  - 1.147.1 Available under license
- 1.148 gettext 0.21.1-r7**
  - 1.148.1 Available under license
- 1.149 log-rotate 3.21.0-r1**
  - 1.149.1 Available under license
- 1.150 bash 5.2.15-r5**

- 1.150.1 Available under license
- 1.151 libcap 2.69-r0**
  - 1.151.1 Available under license
- 1.152 ulikunitz-xz 0.5.9**
  - 1.152.1 Available under license
- 1.153 markupsafe 2.1.3**
  - 1.153.1 Available under license
- 1.154 musl 1.2.4-r1**
  - 1.154.1 Available under license
- 1.155 htop 3.2.2-r1**
  - 1.155.1 Available under license
- 1.156 py3-parsing 3.0.9-r2**
  - 1.156.1 Available under license
- 1.157 py3-packaging 23.1-r1**
  - 1.157.1 Available under license
- 1.158 py3-setuptools 67.7.2-r0**
  - 1.158.1 Available under license
- 1.159 tre 1.2.4-r1**
  - 1.159.1 Available under license
- 1.160 shadow 4.13-r4**
  - 1.160.1 Available under license
- 1.161 busybox 1.36.1-r2**
  - 1.161.1 Available under license
- 1.162 backoff 1.1.0**
  - 1.162.1 Available under license
- 1.163 openconfig-ygot 0.25.3**
  - 1.163.1 Available under license
- 1.164 antchfx-xmlquery 1.3.14**
  - 1.164.1 Available under license
- 1.165 openconfig-goyang 1.1.0**
  - 1.165.1 Available under license
- 1.166 r3labs-sse 2.9.0**
  - 1.166.1 Available under license
- 1.167 antchfx-xpath 1.2.2**
  - 1.167.1 Available under license
- 1.168 busybox 1.36.1-r5**
  - 1.168.1 Available under license
- 1.169 robot-telemetry\_proto 0.0.0-20230530153245-d7fe7800c244**
  - 1.169.1 Available under license

**1.170 protobuf 1.31.0**

1.170.1 Available under license

**1.171 go-uber-org-multierr 1.6.0**

1.171.1 Available under license

**1.172 procps 4.0.4-r0**

1.172.1 Available under license

**1.173 python-setuptools 68.2.2**

1.173.1 Available under license

**1.174 google-uuid 1.3.1**

1.174.1 Available under license

**1.175 openssl 3.1.3-r0**

1.175.1 Available under license

**1.176 python 3.11.6-r0**

1.176.1 Available under license

**1.177 gosnmp 1.31.0**

1.177.1 Available under license

**1.178 spew 1.1.1**

1.178.1 Available under license

**1.179 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415**

1.179.1 Available under license

**1.180 grpc-gateway 1.16.0**

1.180.1 Available under license

**1.181 musl 1.2.4-r2**

1.181.1 Available under license

**1.182 x-sys 0.13.0**

1.182.1 Available under license

**1.183 x-crypto 0.14.0**

1.183.1 Available under license

**1.184 nghttp2 1.57.0-r0**

1.184.1 Available under license

**1.185 curl 8.4.0-r0**

1.185.1 Available under license

**1.186 x-term 0.13.0**

1.186.1 Available under license

**1.187 x-net 0.17.0**

1.187.1 Available under license

**1.188 python-setuptools 65.5.0**

1.188.1 Available under license

**1.189 python-pip 23.2.1**

- 1.189.1 Available under license
- 1.190 python-pip 23.1.2**
  - 1.190.1 Available under license
- 1.191 sh 1.14.3**
  - 1.191.1 Available under license
- 1.192 grpc-go 1.59.0**
  - 1.192.1 Available under license
- 1.193 errors 0.9.1**
  - 1.193.1 Available under license
- 1.194 goprotobuf 1.5.3**
  - 1.194.1 Available under license
- 1.195 pgzip 1.2.5**
  - 1.195.1 Available under license
- 1.196 google-go-cmp 0.6.0**
  - 1.196.1 Available under license
- 1.197 influxdb 1.9.4**
  - 1.197.1 Available under license
- 1.198 scheduler 0.0.0-20170109141437-ee74d2f83d82**
  - 1.198.1 Available under license
- 1.199 wheel 0.41.3**
  - 1.199.1 Available under license
- 1.200 genproto-googleapis-rpc 0.0.0-20231030173426-d783a09b4405**
  - 1.200.1 Available under license
- 1.201 x-text 0.14.0**
  - 1.201.1 Available under license
- 1.202 google-golang-org-genproto 0.0.0-20231030173426-d783a09b4405**
  - 1.202.1 Available under license
- 1.203 nkeys 0.4.6**
  - 1.203.1 Available under license
- 1.204 bridgeutils 1.36.1-r5**
  - 1.204.1 Available under license
- 1.205 golang 1.21.4**
  - 1.205.1 Notifications
  - 1.205.2 Available under license
- 1.206 genproto-googleapis-api 0.0.0-20231106174013-bbf56f31fb17**
  - 1.206.1 Available under license
- 1.207 x-xerrors 0.0.0-20231012003039-104605ab7028**
  - 1.207.1 Available under license
- 1.208 openssl 3.1.4-r1**

- 1.208.1 Available under license
- 1.209 x-net 0.19.0**
  - 1.209.1 Available under license
- 1.210 dsnet-compress 0.0.2-0.20210315054119-f66993602bf5**
  - 1.210.1 Available under license
- 1.211 genproto-googleapis-rpc 0.0.0-20231127180814-3a041ad873d4**
  - 1.211.1 Available under license
- 1.212 genproto-googleapis-api 0.0.0-20231127180814-3a041ad873d4**
  - 1.212.1 Available under license
- 1.213 robot-infra-utils 1.0.2-0.20231129015042-c0b977a495b2**
  - 1.213.1 Available under license
- 1.214 robot-robot-api 0.0.0-20231127055207-c57c107dfc45**
  - 1.214.1 Available under license
- 1.215 etcd-client-pkg 3.5.11**
  - 1.215.1 Available under license
- 1.216 etcd 3.5.11**
  - 1.216.1 Available under license
- 1.217 etcd-client 3.5.11**
  - 1.217.1 Available under license
- 1.218 prometheus-client-model 0.4.0**
  - 1.218.1 Available under license
- 1.219 gopkg.in-yaml 2.4.0**
  - 1.219.1 Available under license
- 1.220 grpc-go 1.60.1**
  - 1.220.1 Available under license
- 1.221 google-uuid 1.5.0**
  - 1.221.1 Available under license
- 1.222 golang-lru 0.5.4**
  - 1.222.1 Available under license
- 1.223 x-net 0.20.0**
  - 1.223.1 Available under license
- 1.224 x-sys 0.16.0**
  - 1.224.1 Available under license
- 1.225 nkeys 0.4.7**
  - 1.225.1 Available under license
- 1.226 genproto-googleapis-rpc 0.0.0-20240116215550-a9fa1716bcac**
  - 1.226.1 Available under license
- 1.227 pierrec-lz4 4.1.15**
  - 1.227.1 Available under license

- 1.228 murmur 1.1.0**
  - 1.228.1 Available under license
- 1.229 hashicorp-uuid 1.0.2**
  - 1.229.1 Available under license
- 1.230 protobuf 1.32.0**
  - 1.230.1 Available under license
- 1.231 google-cloud-go 0.102.1**
  - 1.231.1 Available under license
- 1.232 gokrb5 8.4.2**
  - 1.232.1 Available under license
- 1.233 x-sys 0.17.0**
  - 1.233.1 Available under license
- 1.234 google-golang-org-genproto 0.0.0-20240123012728-ef4313101c80**
  - 1.234.1 Available under license
- 1.235 genproto-googleapis-api 0.0.0-20240123012728-ef4313101c80**
  - 1.235.1 Available under license
- 1.236 x-crypto 0.19.0**
  - 1.236.1 Available under license
- 1.237 robot-oam-grpc 0.0.0-20240212235908-c28eadb2197a**
  - 1.237.1 Available under license
- 1.238 grpc-go 1.61.1**
  - 1.238.1 Available under license
- 1.239 x-term 0.17.0**
  - 1.239.1 Available under license
- 1.240 xxhash 2.2.0**
  - 1.240.1 Available under license
- 1.241 importlib-metadata 4.11.1**
  - 1.241.1 Available under license
- 1.242 platformdirs 2.6.2**
  - 1.242.1 Available under license
- 1.243 pyparsing 3.0.9**
  - 1.243.1 Available under license
- 1.244 fsnotify 1.5.1**
  - 1.244.1 Available under license
- 1.245 futures 3.4.0**
  - 1.245.1 Available under license
- 1.246 supervisor 4.2.4**
  - 1.246.1 Available under license
- 1.247 tomli 2.0.1**

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# 1.5 bytearraypool 1.0.0

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c

lib/gssapi/mechglue/g\_exp\_sec\_context.c  
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lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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## 1.33 modern-go-reflect2 1.0.1

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## 1.39 json-iterator-go 1.1.11



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## 1.40 zap 1.17.0

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## 1.42 go-sysconf 0.3.4

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## 1.43 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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

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## 1.48 globalsign-mgo 0.0.0-20181015135952-eeefdecb41b8

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## 1.49 mgo 0.0.0-20181015135952- eeefdec b41b8

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## 1.50 profile 1.6.0

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## 1.52 pierrec-lz4 2.6.1+incompatible

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## 1.53 lumberjack 2.0.0

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## 1.54 sqlx 1.3.4

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## 1.55 golang-set 1.7.1

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## 1.56 prometheus-common 0.32.1

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## 1.57 alpine-keys 2.4-r1

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# 1.58 antchfx-xpath 1.2.0

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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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## 1.61 jackc-pgproto 2.2.0

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## 1.87 hazelcast-hazelcast-go-client 1.2.0

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## 1.88 gorm-io/gorm 1.23.5

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## 1.89 driver-postgres 1.3.5

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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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## 1.91 lib-pq 1.10.5

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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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## 1.115 mpdecimal 2.5.1-r2

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# 1.119 gdbm 1.23-r1

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## 1.120 bzip2 1.0.8-r5

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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019  
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## 1.122 cpp 12.2.1\_git20220924-r10

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Version 2.1, February 1999

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Any

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include/bsd/err.h

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src/bsd\_getopt.c

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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

man/funopen.3bsd

man/getbsize.3bsd

man/heapsort.3bsd

man/nlist.3bsd

man/pwcache.3bsd

man/queue.3bsd

man/radixsort.3bsd

man/reallocarray.3bsd

man/reallocf.3bsd

man/setmode.3bsd

man/strmode.3bsd

man/strnstr.3bsd

man/strtoi.3bsd

man/strtou.3bsd

man/unvis.3bsd

man/vis.3bsd

man/wcsncpy.3bsd

src/getbsize.c

src/heapsort.c

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src/arc4random\_linux.h

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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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## 1.124 popt 1.19-r2

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src/sha2.c

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## 1.130 pcre 10.42-r1

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
Email domain: gmail.com

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Files: netcat.c

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```
* /opt/cola/permits/1667253608_1683577718.267003/0/ca-certificates-20230506-tar-bz2/ca-certificates-  
20230506/mk-ca-bundle.pl
```

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```
/* c_rehash.c - Create hash symlinks for certificates  
* C implementation based on the original Perl and shell versions  
*  
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* Full license available at: http://opensource.org/licenses/MIT  
*/
```

Found in path(s):

```
* /opt/cola/permits/1667253608_1683577718.267003/0/ca-certificates-20230506-tar-bz2/ca-certificates-  
20230506/c_rehash.c
```

## 1.135 ncurses 6.4\_p20230506-r0

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Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile: txtmode file-encoding=utf-8

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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.12 2023/01/07 17:55:53 tom Exp \$  
Upstream source <https://invisible-island.net/ncurses/Ada95.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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`-- vile: txtmode file-encoding=utf-8`

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of `ncurses`.

Current `ncurses` maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: progs/tset.c ncurses/tinfo/read\_termcap.c

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-- vile: txtmode file-encoding=utf-8

# 1.136 xz 5.4.3-r0

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Version 3, 29 June 2007

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## 1.137 apk-tools 2.14.0-r2

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## 1.138 py3-pip 23.1.2-r0

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

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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

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

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1.3 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
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2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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## 1.145 alpine-baselayout 3.4.3-r1

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```
/*
 * Create mount directories in fstab
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 *
 * usage: mkmntdirs [fstab]
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1675356458_1684887865.7744117/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c
```

## 1.146 golang-glog 1.1.2

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*
*/
```

Found in path(s):

```
* /opt/cola/permits/1678090724_1684323555.0076678/0/posixtz-0-5-tar-xz/posixtz-0.5/posixtz.c
```

## 1.148 gettext 0.21.1-r7

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@item

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@item

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@subheading END OF TERMS AND CONDITIONS

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@end  
smallexample

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@page

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and a brief idea of what it does.}  
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@end smallexample

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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  
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suits your program.

You should also get your employer (if you work as a programmer) or your  
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necessary. Here is a sample; alter the names:

@example  
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'Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice  
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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## Preamble

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

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"Source code" for a work means the preferred form of the work for



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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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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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4 to

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## 1.150 bash 5.2.15-r5

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```
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```
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```

```
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## 1.152 ulikunitz-xz 0.5.9

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package main

```
import (  
    "bufio"  
    "bytes"  
    "flag"  
    "fmt"  
    "io"  
    "log"  
    "os"  
    "path/filepath"  
    "strings"  
)
```

```
const crUsageString = `xb copyright [options] <path>...
```

The xb copyright command adds a copyright remark to all go files below path.

```
-h prints this message and exits
```

```
`
```

```
func crUsage(w io.Writer) {  
    fmt.Fprint(w, crUsageString)  
}
```

```
const copyrightText = `
```

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`

```
func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintln(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err
    = scanner.Err(); err != nil {
        panic(err)
    }
    if _, err = fmt.Fprintln(buf); err != nil {
        panic(err)
    }
    return buf.String()
}
```

```
var goCopyright = goComment(copyrightText)
```

```
func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
```

```

cerr := dst.Close()
if cerr != nil && err == nil {
    err = cerr
}
}()
out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
    txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

```

```

}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

package main

const goLicense = `Copyright (c) 2009 The Go Authors. All rights reserved.

```

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# 1.153 markupsafe 2.1.3

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# 1.154 musl 1.2.4-r1

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## Exhibit B - "Incompatible With Secondary Licenses" Notice

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

```
JUNIPER-LICENSE-MIB DEFINITIONS ::= BEGIN
```

### IMPORTS

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

```
jnxLicenseMIB MODULE-IDENTITY  
LAST-UPDATED "201906170000Z"  
ORGANIZATION "Juniper Networks, Inc."  
CONTACT-INFO  
"Juniper Technical Assistance Center  
Juniper Networks, Inc.
```



1133 Innovation Way  
Sunnyvale, CA 94089  
E-mail: support@juniper.net"

DESCRIPTION

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

REVISION "201007090000Z" -- Jul 09, 2010

DESCRIPTION

"Initial version."

REVISION "201612150000Z" -- Dec 15, 2016

DESCRIPTION

"Added OID jnxLicenseKeyType and Trap jnxLicenseExpired"

REVISION "201906170000Z" -- Jun 17, 2019

DESCRIPTION

"Deprecated jnxLicenseKeys."

::= { jnxLicenseMibRoot 1 }

jnxLicenseNotifications OBJECT IDENTIFIER ::= { jnxLicenseMIB 0 }

jnxLicenseObjects OBJECT IDENTIFIER ::= { jnxLicenseMIB 1 }

jnxLicenseInstallObjects OBJECT IDENTIFIER ::= { jnxLicenseObjects 1 }

jnxLicenseSettings OBJECT IDENTIFIER ::= { jnxLicenseObjects 2 }

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

jnxLicenseInstallTable OBJECT-TYPE

SYNTAX SEQUENCE OF JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "This table contains installed feature license information."

::= { jnxLicenseInstallObjects 1 }

jnxLicenseInstallEntry OBJECT-TYPE

SYNTAX JnxLicenseInstallEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "A row of giving installed feature license information."

INDEX { IMPLIED jnxLicenseId }

::= { jnxLicenseInstallTable 1 }

JnxLicenseInstallEntry ::= SEQUENCE {

jnxLicenseId DisplayString,

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

jnxLicenseId OBJECT-TYPE

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

jnxLicenseVersion OBJECT-TYPE

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

jnxLicenseDeviceId OBJECT-TYPE

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

jnxLicenseType OBJECT-TYPE

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

jnxLicenseKeys OBJECT-TYPE

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

```
 ::= { jnxLicenseInstallEntry 5 }
```

jnxLicenseKeyType OBJECT-TYPE

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

-- Feature Listing Table

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

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

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

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

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

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

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

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

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

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

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

jnxLicenseRenewBeforExpiration  
OBJECT-TYPE  
SYNTAX INTEGER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

```

    "License renew lead time before expiration in days."
 ::= { jnxLicenseSettings 1 }

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

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

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

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

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

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

```

```
::= { jnxLicenseNotifications 3 }
```

```
jnxLicenseInfringeCumulative NOTIFICATION-TYPE
```

```
OBJECTS { jnxLicenseFeatureName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The SNMP trap that is generated when the  
feature is used more
```

```
times than as specified in number of licenses allowed for feature  
as identified by jnxLicenseFeatureName"
```

```
::= { jnxLicenseNotifications 4 }
```

```
jnxLicenseInfringeSingle NOTIFICATION-TYPE
```

```
OBJECTS { jnxLicenseFeatureName }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The SNMP trap that is generated when the license for feature  
identified by jnxLicenseFeatureName is not valid i.e. either expired or  
not available."
```

```
::= { jnxLicenseNotifications 5 }
```

```
jnxLicenseKeyExpired NOTIFICATION-TYPE
```

```
OBJECTS { jnxLicenseFeatureName, jnxLicenseFeatureLicenseId, jnxLicenseKeyType }
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The SNMP trap that is generated when the license for feature  
identified by jnxLicenseFeatureName is not valid i.e. either expired or  
not available."
```

```
::= { jnxLicenseNotifications 6 }
```

```
END
```

```
submodule Cisco-IOS-XR-smart-license-platform-oper-sub1 {
```

```
belongs-to Cisco-IOS-XR-smart-license-platform-oper {  
  prefix Cisco-IOS-XR-smart-license-platform-oper;  
}
```

```
import cisco-semver {  
  prefix semver;  
}
```

```
organization
```

```
"Cisco Systems, Inc.";
```

```
contact
```

```
"Cisco Systems, Inc.  
Customer Service
```

```
Postal: 170 West Tasman Drive
```

```
San Jose, CA 95134
```

Tel: +1 800 553-NETS

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

description

"This submodule contains a collection of YANG definitions  
for Cisco IOS-XR smart-license-platform package operational data.

Copyright (c) 2013-2022 by Cisco Systems, Inc.

All rights reserved.";

revision 2022-09-28 {

description

"Added zr-zrp-dco under ft-feature-name-enum enum.

2022-07-27

Renamed node-deactivated enum to perpetual-without-sia-renewal in Sia-status-enum type.

2022-05-09

Traffic-Eng Advantage license feature renamed to SR-TE Advantage license  
in feature-details container.";

semver:module-version "2.0.0";

}

revision 2021-06-03 {

description

"Added support for enum node-deactivated.";

semver:module-version "1.1.0";

}

revision 2020-09-15 {

description

"Structured the yang response for show CLIs.";

semver:module-version "1.0.0";

}

revision 2019-04-05 {

description

"Establish semantic version baseline.";

}

revision 2015-11-09 {

description

"IOS XR 6.0 revision.";

}

typedef Ft-feature-name-enum {

type enumeration {

enum "essential" {

description

"essential";

}

enum "l3vpn-advantage" {

description

```

    "l3vpn advantage";
}
enum "macsec-advantage" {
    description
        "macsec advantage";
}
enum "peering-scale-advantage" {
    description
        "peering scale advantage";
}
enum "sr-te-advantage" {
    description
        "sr te advantage";
}
enum "flex-algo-advantage" {
    description
        "flex algo advantage";
}
enum "service-layer-advantage" {
    description
        "service layer advantage";
}
enum "evpn-advantage" {
    description
        "evpn advantage";
}
enum "vpls-advantage" {
    description
        "vpls advantage";
}
enum "iccp-advantage" {
    description
        "iccp advantage";
}
enum "l2vpn-advantage" {
    description
        "l2vpn advantage";
}
enum "zr-zrp-dco" {
    description
        "zr zrp dco";
}
}
description
    "Feature Name in the feature table";
}

```

```

typedef Feature-status-enum {

```



```

type enumeration {
  enum "active" {
    description
      "active";
  }
  enum "inactive" {
    description
      "inactive";
  }
}
description
  "Feature Name";
}

```

```

typedef Feature-name-enum {
  type enumeration {

enum "fcm" {
  description
    "fcm";
  }
  enum "system" {
    description
      "system";
  }
}
description
  "Feature Name";
}

```

```

typedef Bool-state {
  type enumeration {
    enum "no" {
      value 0;
      description
        "No";
    }
    enum "yes" {
      value 1;
      description
        "Yes";
    }
  }
}
description
  "Boolean State ";
}

```

```

typedef Sia-status-enum {

```

```

type enumeration {
  enum "incompliance" {
    description
      "incompliance";
  }
  enum "out-of-compliance" {
    description
      "out of compliance";
  }
  enum "perpetual-without-sia-renewal" {
    description
      "perpetual without sia renewal";
  }
}
description
  "SIA Status";
}

```

```

grouping FEATURE-LIST {
  description
    "FEATURE LIST";
  container count {
    description
      "Count";
    uses PLAT-ENTITLEMENT;
  }
  leaf feature-area
  {
    type Feature-name-enum;
    description
      "Feature Name";
  }
  leaf entitlement {
    type string;
    description
      "Entitlement";
  }
}

```

```

grouping PLAT-SL-SUMMARY {
  description
    "SL Summary";
  container collection {
    description
      "Last and Next collection times";
    uses PLAT-INTERVALS;
  }
  container reporting {

```

```

description
  "Last and Next reporting times";
uses PLAT-INTERVALS;
}
container sia-status {
description
  "SIA Status";
uses PLAT-SIA-STATUS;
}
container upgrade-license-status {
description
  "Upgrade License Status";
uses PLAT-UPGRADE-LICENSE-STATUS;
}
list license {
description
  "List of licenses consumed";
uses FEATURE-LIST;
}
}

```

```

grouping PLAT-ENTITLEMENT {
description
  "PLAT ENTITLEMENT";
leaf last {
type uint32;
description
  "Last count";
}
leaf next {
type uint32;
description
  "Next count";
}
}
}

```

```

grouping PLAT-ENTITLEMENT-LIST {
description
  "PLAT ENTITLEMENT LIST";
container count {
description
  "Count";
uses PLAT-ENTITLEMENT;
}
leaf name {
type string;
description

```

```

    "Entitlement Name";
}
leaf entitlement-tag {
    type string;
    description
        "Entitlement Tag";
}
}

grouping PLAT-FEATURE-TABLE {
    description
        "PLAT FEATURE TABLE";
    leaf feature {
        type Ft-feature-name-enum;
        description
            "Feature Name";
    }
    leaf location {
        type string;
        description
            "Location";
    }
    leaf interface-list {
        type string;
        description
            "Interface List";
    }
}

grouping PLAT-DETAIL-FLAGS {
    description
        "PLAT DETAIL FLAGS";
    leaf need-running-config {
        type Bool-state;
        description
            "Is running config needed";
    }
    leaf need-throughput {
        type Bool-state;
        description
            "Is throughput needed";
    }
}

grouping FEATURE-DETAILS {
    description
        "FEATURE DETAILS";
    container flags {

```

```

description
  "Flags for is running config and is throughput";
uses PLAT-DETAIL-FLAGS;
}
leaf name {
  type Feature-name-enum;
  description
    "Feature Name";
}
leaf status {
  type Feature-status-enum;
  description
    "Status";
}
list feature-table {
  description
    "Feature Table";
uses PLAT-FEATURE-TABLE;
}
list entitlement {
  description
    "List of entitlements";
uses PLAT-ENTITLEMENT-LIST;
}
}

```

```

grouping PLAT-PARAMETERS {
  description
    "PLAT PARAMETERS";
  leaf collection-interval {
    type int32;
    units "minute";
    description
      "Collection Interval in minutes";
  }
  leaf reporting-interval {
    type int32;
    units "minute";
    description
      "Reporting Interval minutes";
  }
  leaf throughput-guage {
    type int32;
    units "kbit/s";
    description
      "Throughput Guage in Kbps";
  }
}

```

```

}

grouping PLAT-UPGRADE-LICENSE-STATUS {
  description
    "PLAT UPGRADE LICENSE STATUS";
  container grace-period-remaining {
    description
      "Remaining grace period";
    uses PLAT-GRACE-PERIOD;
  }
  leaf upgrade-license-state {
    type Sia-status-enum;
    description
      "Upgrade License status enum";
  }
  leaf grace-period-expired {
    type Bool-state;
    description
      "Has grace period expired";
  }
  leaf ooc-reason {
    type string;
    description
      "Reason for Upgrade License ooc";
  }
}

```

```

grouping PLAT-GRACE-PERIOD {
  description
    "PLAT GRACE PERIOD";
  leaf days {
    type int32;
    units "day";
    description
      "Number of days remaining in grace period";
  }
  leaf hours {
    type int32;
    units "hour";
    description
      "Number of hours remaining in grace period";
  }
}

```

```

grouping PLAT-SIA-STATUS {
  description
    "PLAT SIA STATUS";
  container grace-period-remaining {

```

```

description
  "Remaining grace period";
uses PLAT-GRACE-PERIOD;
}
leaf sia-state {
  type Sia-status-enum;
  description
    "SIA status enum";
}
leaf grace-period-expired {
  type Bool-state;
  description
    "Has grace period expired";
}
leaf ooc-reason {
  type string;
  description
    "Reason for SIA ooc";
}
}

grouping PLAT-INTERVALS {
  description
    "PLAT INTERVALS";
  leaf last {
    type string;
    description
      "Last collection or reporting interval";
  }
  leaf next {
    type string;
    description
      "Next collection or reporting interval";
  }
}

grouping PLAT-SL-DETAIL {
  description
    "SL Detail";
  container collection {
    description
      "Last
and Next collection times";
    uses PLAT-INTERVALS;
  }
  container reporting {
    description
      "Last and Next reporting times";
  }
}

```

```

    uses PLAT-INTERVALS;
}
container sia-status {
    description
        "SIA Status";
    uses PLAT-SIA-STATUS;
}
container upgrade-license-status {
    description
        "Upgrade License Status";
    uses PLAT-UPGRADE-LICENSE-STATUS;
}
container parameters {
    description
        "Parameters";
    uses PLAT-PARAMETERS;
}
container feature-details {
    description
        "Feature Details";
    uses FEATURE-DETAILS;
}
}
}
}
module Cisco-IOS-XR-um-license-smart-cfg {
    namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-um-license-smart-cfg";
    prefix um-license-smart-cfg;

    import Cisco-IOS-XR-types {
        prefix xr;
    }
    import cisco-semver {
        prefix semver;
    }

    organization
        "Cisco Systems, Inc.";
    contact
        "Cisco Systems, Inc.
        Customer Service

        Postal: 170 West Tasman Drive
        San Jose, CA 95134

        Tel: +1 800 553-NETS

        E-mail: cs-yang@cisco.com";
    description

```



"This module contains a collection of YANG definitions for Cisco IOS-XR license-smart package configuration.

This YANG module augments the modules with configuration data.

Copyright (c) 2021-2022 by Cisco Systems, Inc.  
All rights reserved.";

```
revision 2022-03-05 {
  description
    "Model deprecated";
  semver:module-version "1.1.0";
}
revision 2021-03-03 {
  description
    "Initial release";
  semver:module-version "1.0.0";
}

feature is_software_upgrade_config_visible
{
  description
    "is software upgrade config visible";
}

feature is_reservation_config_visible {
  description
    "is reservation config visible";
}

feature is_config_visible {
  description
    "is config visible";
}

container license {
  status deprecated;
  description
    "license";
  container smart {
    description
      "Smart Licensing";
  }
  container transport {
    description
      "Select the type of message transport for Smart Licensing";
  }
  container smart {
    presence "Indicates a smart node is configured.";
```

```

    description
      "Use the http as transport";
  }
}
leaf url {
  type string {
    length "1..200" {
      description
        "Set the Smart Transport URL";
    }
  }
  description
    "Set the Smart Transport Primary URL";
}
container proxy {
  description
    "Proxy
related commands";
  leaf hostname {
    type xr:Cisco-ios-xr-string {
      length "1..200" {
        description
          "address/hostname";
      }
    }
  }
  description
    "The IP address or hostname of the Proxy";
}
leaf port {
  type uint32 {
    range "0..65535" {
      description
        "proxy port";
    }
  }
  description
    "The proxy port";
}
}
}
container license-smart-flexible-consumption {
  if-feature "is_config_visible";
  status deprecated;
  description
    "flexible-consumption(Vortex) model";
  container enable {
    presence "Indicates a enable node is configured.";
  }
}

```

```

    description
      "Enable flexible-consumption model";
  }
}
container license-smart-software-upgrade {
  if-feature "is_software_upgrade_config_visible";
  status deprecated;
  description
    "Enable
or disable the software-upgrade feature";
  container enable {
    presence "Indicates a enable node is configured.";
    description
      "Enable or disable the software-upgrade feature";
  }
}
container license-smart-reservation {
  if-feature "is_reservation_config_visible";
  presence "Indicates a reservation node is configured.";
  status deprecated;
  description
    "Enable or disable the license reservation feature";
}
}
/*
* Generated by nsc --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 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

```

```

clmgtLicenseDeviceInfoEntry {
  key "entPhysicalIndex";
  description
  "An entry in clmgtLicenseDeviceInfoTable. 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 clmgtDefaultLicenseStore {
    type uint32 {
      range "1..4294967295";
    }
    description
    "This object indicates the clmgtLicenseStoreIndex 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 clmgtLicenseInfoTable {
  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 clmgtLicenseInfoEntry {
    key "entPhysicalIndex clmgtLicenseStoreUsed clmgtLicenseIndex";
    description
    "An entry in clmgtLicenseInfoTable. Each entry contains
    information about a license installed on the device. This
    entry gets created when a license is installed successfully.
    Management application can not create these entries directly, but
    will do so indirectly by executing license install action.
    Some of these entries may already exist that correspond to
    demo licenses even before management application installs any
    licenses.";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1";
  }
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```
description
  "This object indicates the version of the feature that is
  using or can use this license. Examples of feature version
  are: '1.0', '2.0';
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.4";
}
```

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

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

defined in terms of calendar dates.

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

extension(2) - Extension(expiring) license.

gracePeriod(3) - Grace period license.

permanent(4) - permanent license, the license has no expiry date.

paidSubscription(5) - Paid subscription licenses are the licenses

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

evaluationSubscription(6)-Evaluation subscription licenses are the trial licenses. These licenses are node locked and it can be obtained only once for an UDI. They are valid

based on calendar days. These licenses

have a start date and an end date associated with them and are issued once per UDI.

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

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

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

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

the product.

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

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

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

```

}

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

```

```

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

```

```

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

```

```

leaf clmgmtLicenseMaxUsageCount {
  type uint32;
  description
    "This object indicates the maximum number of entities that
    can use this license. This object is applicable only if

```

```

    clmgmtLicenseCounted is true(1). The entity that is being
    counted can be anything and it depends on the licensable
    feature.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.10";
}

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

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

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

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

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

```

```

    value "2";
  }
  enum "inUse" {
    value "3";
  }
  enum "expiredInUse" {
    value "4";
  }
  enum "expiredNotInUse" {
    value "5";
  }
  enum "usageCountConsumed" {
    value "6";
  }
}
description
"This object represents status of the license.

```

inactive(1) - license is installed, but not active.

notInUse(2) - license is installed and available for use.

inUse(3) - the license is being used (by a feature).

expiredInUse(4)  
- license is expired but still being held by the feature.

expiredNotInUse(5) - license is expired and not being held by any feature.

usageCountConsumed(6) - number of entities using this licenses has reached the allowed limit, no new entities are allowed to use this license.";

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

```
smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.14";
```

```
}
```

```
leaf clmgmtLicenseStartDate {
```

```
type snmpv2-tc:DateAndTime;
```

```
description
```

"This object indicates the start date for a subscription license. It is optional for subscription licenses to have a start date associated with them, they may only have an end date associated with them. This object may be applicable only

when clmgmtLicenseType is paidSubscription(5),

evaluationSubscription(6) or extensionSubscription (7).

The object will contain an octet string of length 0 when it is



```
    not applicable.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.3.1.15";
}
```

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

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

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

```
list clmgmtLicensableFeatureEntry {
    key "entPhysicalIndex clmgmtFeatureIndex";
    description
        "An entry
```

in clmgmtLicensableFeatureTable. Each entry represents

a licensable feature.";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.2.4.1";

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

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

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

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

```
leaf clmgmtFeatureValidityPeriodRemaining {
```

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

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

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

```
leaf clmgmtFeatureStartDate {

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

```

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

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

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

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

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

```

### 1. CREATE-AND-GO method

Management application sets `clmgmtDevCredExportActionStatus` to `createAndGo(4)` and all other required objects to valid values in a single SNMP SET request. If all the values are valid, the device creates the entry and executes the 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  
  clmgmtNextFreeCredExportActionIndex while creating an  
  entry in this table.
```

If an entry already exists with this index, the creation of the entry will not continue and

```

error will be returned. The management application should
read the value of clmgmtNextFreeDevCredExportActionIndex
again and retry with the new value for this object.";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.1";
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

```

```

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

```

```

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

```

```

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

```

```

smiv2:max-access "read-write";
smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.7";
}

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

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

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

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

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

```



```

leaf clmgmtDevCredCommandFailCause {
  type enumeration {
    enum "none" {
      value "1";
    }
    enum "unknownError" {
      value "2";
    }
    enum "transferProtocolNotSupported"
  {
    value "3";
  }
    enum "fileServerNotReachable" {
      value "4";
    }
    enum "unrecognizedEntPhysicalIndex" {
      value "5";
    }
    enum "invalidFile" {
      value "6";
    }
  }
  description
  "This object indicates the the reason for device
  credentials export operation failure.

```

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

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

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

operation is

performed

transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
given is not supported.

fileServerNotReachable(4) - file server is not reachable.

unrecognizedEntPhysicalIndex(5) - entPhysicalIndex is not  
valid

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

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.9.9.543.1.3.2.1.11";

}

```

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

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

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

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

  container object-1 {

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

```

```

}

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

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

container object-2 {

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

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

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

notification clmgmtLicenseExpiryWarning {
  description

```

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

when expiry day is 2 weeks

ahead. This notification will go out daily in the last week of license expiry.";

smiv2:oid "1.3.6.1.4.1.9.9.543.0.2";

container object-1 {

leaf entPhysicalIndex {

type leafref {

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

}

}

leaf clmgmtFeatureIndex {

type leafref {

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

}

}

leaf clmgmtFeatureName {

type leafref {

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

}

}

}

container object-2 {

leaf entPhysicalIndex {

type leafref {

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

}

}

leaf clmgmtFeatureIndex {

type leafref {

```

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

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

container object-3 {

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

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

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

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

```

```

container object-1 {

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

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

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

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

container object-2 {

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

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

```

```

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

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

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

container object-3 {

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

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

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

```

```

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

container object-4 {

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

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

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

container object-5 {

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

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

```



```

mib:clmgmtLicenseStoreUsed";
    }
}

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

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

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

    container object-1 {

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

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

```

```

}

leaf clmgmtLicenseIndex {
  type leafref {

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

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

container object-2 {

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

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

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

  leaf clmgmtLicenseFeatureVersion {
    type leafref {

```

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

```
container object-3 {
```

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

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

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

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

```
container object-4 {
```

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

```

}

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

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

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

container object-5 {

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

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

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

```

```

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

container object-6 {

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

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

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

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

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

    container object-1 {

```

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

```
  }
}
```

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

```
  }
}
```

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

```
  }
}
```

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

```
  }
}
}
```

```
container object-2 {
```

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

```
    }
  }
```

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

```

    }
  }

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

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

container object-3 {

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

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

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

  leaf clmgmtLicenseType {
    type leafref {

```

```

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

```

```

container
object-4 {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

container object-1 {

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

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

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

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

container object-2 {

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

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

```

```

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

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

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

container object-3 {

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

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

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

    leaf clmgmtLicenseType {

```

```

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

container object-4 {

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

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

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

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

notification clmgmtLicenseRevoked {
  description
  "This notification is sent when a license is revoked
successfully.";
}

```

smiv2:oid "1.3.6.1.4.1.9.9.543.0.7";

container object-1 {

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

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

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

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

container object-2 {

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

```
    leaf clmgmtLicenseStoreUsed {
```

```

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

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

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

container object-3 {

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

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

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

```

```

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

container object-4 {

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

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

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

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

notification clmgmtLicenseEULAAccepted {
  description
  "This

```

notification is sent when a user accepts End User

License Agreement (EULA) for a license.";

smiv2:oid "1.3.6.1.4.1.9.9.543.0.8";

container object-1 {

leaf entPhysicalIndex {

type leafref {

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

}

}

leaf clmgmtFeatureIndex {

type leafref {

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

}

}

leaf clmgmtFeatureName {

type leafref {

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

}

}

}

container object-2 {

leaf entPhysicalIndex {

type leafref {

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

}

}

leaf clmgmtFeatureIndex {

type leafref {

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

}

}

```

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

```

```

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

```

```

container object-1 {

```

```

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

```

```

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

```

```

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

```

```

container object-2 {

```



```

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

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

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

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

container object-1 {

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

    leaf clmgmtFeatureIndex {

```

```

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

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

container object-2 {

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

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

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

container object-3 {

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

```

```

mib:entPhysicalIndex";
    }
}

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

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

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

container object-1 {

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

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

```

```

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

container object-2 {

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

  leaf clmgmtFeatureIndex {
    type leafref {

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

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

container object-3 {

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

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

```

```

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

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

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

    container object-1 {

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

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

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

```

```

container object-2 {

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

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

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

container object-3 {

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

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

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

```

```
}  
}  
}  
}
```

```
notification clmgmtLicenseEvalRTUTransitionWarning {
```

```
  description
```

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

```
  container object-1 {
```

```
    leaf entPhysicalIndex {
```

```
      type leafref {
```

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

```
      }
```

```
    }
```

```
    leaf clmgmtFeatureIndex {
```

```
      type leafref {
```

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

```
      }
```

```
    }
```

```
    leaf clmgmtFeatureName {
```

```
      type leafref {
```

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

```
      }
```

```
    }
```

```
  }
```

```
  container object-2 {
```

```
    leaf entPhysicalIndex {
```

```
      type leafref {
```

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

```
      }
```

```
    }
```

```

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

```

```

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

```

```

container object-3 {

```

```

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

```

```

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

```

```

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

```

```

notification clmgmtLicenseEvalRTUTransition {
  description
  "This notification is sent, when a feature license transitions

```



```

from a evaluation to a
Right to use (RTU) license.";
smiv2:oid "1.3.6.1.4.1.9.9.543.0.14";

container object-1 {

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

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

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

container object-2 {

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

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

    leaf clmgmtFeatureVersion {

```

```

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

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

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

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

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

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

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

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

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

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

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

```

```

}
module Cisco-IOS-XR-smart-license-act {
  namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-smart-license-act";
  prefix smart-license-act;

  import cisco-semver {
    prefix semver;
  }
  include Cisco-IOS-XR-smart-license-errors;

  organization
    "Cisco Systems, Inc.";
  contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
  description
    "This module contains a collection of YANG definitions
    for Cisco IOS-XR action package configuration.

    Copyright (c) 2016-2020 by Cisco Systems, Inc.
    All rights reserved.";

  revision 2020-07-09 {
    description
      "IOS XR 7.4.1 revision.";
    semver:module-version "1.0.0";
  }

  typedef operation-status-enum {
    type enumeration {
      enum "success" {
        value 0;
        description
          "Operation was a success";
      }
      enum "failed" {
        value 1;

        description
          "Operation failed";
      }
    }
  }

```

```

    }
  }
  description
    "Smart license operation status";
}

typedef request-type-enum {
  type enumeration {
    enum "None" {
      value 0;
      description
        "ReservationSystemTypeNone";
    }
    enum "local" {
      value 1;
      description
        "ReservationSystemTypeLocal";
    }
    enum "all" {
      value 2;
      description
        "ReservationSystemTypeAll";
    }
    enum "universal" {
      value 3;
      description
        "ReservationSystemTypeUniversal";
    }
  }
  description
    "Smart license reservation request type";
}

grouping overall-op-status {
  description
    "Overall operation status";
  leaf operation-status {
    type operation-status-enum;
    description
      "Status of operation: Success or Failure";
  }
  leaf return-code {
    type error-enum;
    description
      "The return code";
  }
}
}

```

```

grouping
smartagent-udi {
  description
    "smartagent udi";
  leaf pid {
    type string;
    description
      "The Product Identifier. Always combined with sn.";
  }
  leaf sn {
    type string;
    description
      "The system serial number. Always combined with
      pid.";
  }
  leaf vid {
    type string;
    description
      "The version identifier. Usually combined with
      pid & sn.";
  }
  leaf uuid {
    type string;
    description
      "A 32 byte hex value generated by the system.
      This will be in proper UUID format 8-4-4-4-12.
      Often used by VMs or other systems that do not
      have a hardware identifier.";
  }
  leaf suvi {
    type string;
    description
      "Free form virtual identifier often used by
      software only devices like software routers or
      VMs.";
  }
  leaf host-identifier {
    type string;
    description
      "Host identifier available on some systems.
      Typically 8 hex digits.";
  }
  leaf mac-address {
    type string;
    description
      "The MAC address of the system. This is usually
      only used if there is nothing else available to
      be used as an identifier.";
  }

```

```

}
}

grouping udi-string-data-list {
  description
    "Return codes";
  container udi {
    description
      "UDI";
    uses smartagent-udi;
  }
  leaf data {
    type string;
    description
      "Reservation codes: Example: request code if
      reservation request is being carried out,return
      code in case of reservation return etc";
  }
}

grouping res-codes {
  description
    "Return codes for SLR-PLR";
  container response {
    description
      "Contains the overall status of operation and error code";
    uses overall-op-status;
  }
  leaf display-string {
    type string;
    description
      "Reservation display string";
  }
  container udi {

description
  "UDI";
  uses smartagent-udi;
}
  leaf request-code {
    type string;
    description
      "Reservation request code";
  }
  leaf confirmation-code {
    type string;
    description
      "Reservation request code";
  }
}

```

```

}
leaf reservation-return-code {
  type string;
  description
    "Reservation request code";
}
}

rpc de-register {
  description
    "De-register. This will immediately de-register the device.
    If state:operational-mode=opr-mode-reporting then this will return
    notsupported in output:return-code";
  output {
    container response {
      description
        "Contains the overall status of operation and error code";
      uses overall-op-status;
    }
  }
}

rpc renew-id {
  description
    "Under normal operations smart licensing will automatically renew
    the ID certificates used for registration. This command can
    be used if the customer wants to
    initiate a manual
    registration renewal.
    If state:operational-mode=opr-mode-reporting then this
    will return notsupported in output:return-code";
  output {
    container response {
      description
        "Contains the overall status of operation and error code";
      uses overall-op-status;
    }
  }
}

rpc renew-auth {
  description
    "Under normal operations smart licensing will automatically renew
    the license authorization every 30 days. This command can
    be used if the customer wants to initiate a manual
    renewal.
    If state:operational-mode=opr-mode-reporting then this
    will return notsupported in output:return-code";
  output {
    container response {

```

```

    description
      "Contains the overall status of operation and error code";
    uses overall-op-status;
  }
}
}
rpc register-id-token {
  description
    "Register with an ID token.
    This will begin the registration
    process. Since the registration
    process will take somewhere between seconds and hours you must get the
    registration-success or registration-fail notifications
    or check the registration status in smart-license:state
    to know the status of the registration.
    If state:operational-mode=opr-mode-reporting then this
    will return notsupported in output:return-code";
  input {
    leaf id-token {
      type string {
        length "1..255";
      }
      description
        "The ID token used to register.";
    }
    leaf force {
      type boolean;
      default "false";
      description
        "Force the registration if set.";
    }
  }
}
output {
  container response {
    description
      "Contains the overall status of operation and error code";
    uses overall-op-status;
  }
}
}
rpc reservation-request {
  description
    "Reservation request for PLR/SLR mode";
  input {

    leaf request-type {
      type request-type-enum;
      description

```



```

    "Reservation request type";
  }
}
output {
  container reservation-codes {
    description
      "Contains return code information of operation";
    uses res-codes;
  }
}
}
rpc reservation-return {
  description
    "Return reservation for the active system";
  input {
    leaf request-type {
      type request-type-enum;
      description
        "Reservation request type";
    }
  }
  output {
    container reservation-codes {
      description
        "Contains return code information of operation";
      uses res-codes;
    }
  }
}
rpc reservation-return-authorization {
  description
    "Return a smart license reservation from an authorization code.";
  input {
    leaf auth-code {
      type string;
      description
        "Auth code to be returned";
    }
  }
  container file {
    description

    "Return auth code from file";
    leaf file-path {
      type string;
      description
        "File containing auth code to be returned";
    }
  }
}

```

```

}
output {
  container reservation-codes {
    description
      "Contains return code information of operation";
    uses res-codes;
  }
}
}
}
rpc reservation-install {
  description
    "Install a smart license reservation authorization code";
  input {
    leaf authorization-code {
      type string;
      description
        "Install the auth code";
    }
    container file {
      description
        "Install auth code from file";
      leaf file-path {
        type string;
        description
          "File containing auth code to be installed";
      }
    }
  }
  output {
    container reservation-codes {
      description
        "Contains return code information of operation";
      uses res-codes;
    }
  }
}
}
rpc
reservation-cancel {
  description
    "Cancel reservation for the active system";
  input {
    leaf request-type {
      type request-type-enum;
      description
        "Reservation request type";
    }
  }
  output {

```

```

    container response {
      description
        "Contains the overall status of operation and error code";
      uses overall-op-status;
    }
  }
}
}
-- *****
-- 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 advservices 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),

rtp(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 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 accepted

false(2) - EULA not accepted"

::= { clmgmtLicenseInfoEntry 12 }

clmgmtLicenseComments OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object represents the user modifiable comments about the license. This object is initially populated with comments from the license file."

::= { clmgmtLicenseInfoEntry 13 }

clmgmtLicenseStatus OBJECT-TYPE

SYNTAX INTEGER {

inactive(1),

notInUse(2),

inUse(3),

expiredInUse(4),

expiredNotInUse(5),

usageCountConsumed(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object represents status of the license.

inactive(1) - license is installed, but  
not active.

notInUse(2) - license is installed and  
available for use.

inUse(3) - the license is being used (by  
a feature).

expiredInUse(4) - license is expired but still  
being held by the feature.

expiredNotInUse(5) - license is expired and not being  
held by any feature.

usageCountConsumed(6) - number of entities using this  
licenses has reached the allowed  
limit, no new entities are allowed  
to use this license."

::= { clmgmtLicenseInfoEntry 14 }

clmgmtLicenseStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { clmgmtLicenseInfoEntry 15 }

clmgmtLicenseEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the end date for a subscription license.  
This object is applicable only when clmgmtLicenseType is  
paidSubscription(5), evaluationSubscription(6) or  
extensionSubscription (7). The object will contain an octet  
string of length 0 when it is not applicable."

::= { clmgmtLicenseInfoEntry



16 }

clmgmtLicensePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period used for the  
Right to use (RTU) licenses. This object is applicable for all  
RTU licenses."

::= { clmgmtLicenseInfoEntry 17 }

-- Licensable features information table.

clmgmtLicensableFeatureTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains list of licensable features in the  
image. All the licensable features will have an entry each  
in this table irrespective of whether they are using any  
licenses currently. Entries in this table are created by  
the agent one for each licensable feature in the image.  
These entries remain in the table permanently and can not

be deleted. Management application can not create or delete  
entries from this table."

::= { clmgmtLicenseInformation 4 }

clmgmtLicensableFeatureEntry OBJECT-TYPE

SYNTAX ClmgmtLicensableFeatureEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in clmgmtLicensableFeatureTable. Each entry represents  
a licensable feature."

INDEX {  
    entPhysicalIndex,  
    clmgmtFeatureIndex  
}

::= { clmgmtLicensableFeatureTable 1 }

ClmgmtLicensableFeatureEntry ::= SEQUENCE {

    clmgmtFeatureIndex Unsigned32,

    clmgmtFeatureName SnmpAdminString,

```

    clmgmtFeatureVersion          SnmpAdminString,
    clmgmtFeatureValidityPeriodRemaining Unsigned32,
    clmgmtFeatureWhatIsCounted    SnmpAdminString,
    clmgmtFeatureStartDate        DateAndTime,
    clmgmtFeatureEndDate          DateAndTime,
    clmgmtFeaturePeriodUsed       Unsigned32
}

```

clmgmtFeatureIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a licensable feature in the device."

::= { clmgmtLicensableFeatureEntry 1 }

clmgmtFeatureName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the name of the licensable feature in the device. Examples of feature names are: 'IPBASE', 'ADVIPSERVICE'"

::= { clmgmtLicensableFeatureEntry 2 }

clmgmtFeatureVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the version of the licensable feature in the device. Examples

of feature versions

are: '1.0' or '2.0'"

::= { clmgmtLicensableFeatureEntry 3 }

clmgmtFeatureValidityPeriodRemaining OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the time period remaining before the feature's license expires or transitions. This object is applicable only if clmgmtLicenseType of the license used by

this feature is demo(1), or extension(2) or gracePeriod(3) or evalRightToUse(8).

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

::= { clmgmtLicensableFeatureEntry 4 }

clmgmtFeatureWhatIsCounted OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { clmgmtLicensableFeatureEntry 5 }

clmgmtFeatureStartDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

octet string of length 0."

::= { clmgmtLicensableFeatureEntry 6 }

clmgmtFeatureEndDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license end date of the feature. This object is applicable if at least one of the licenses used for this feature has a valid end date. The end date will be the latest of the valid end dates of all the licenses used for this feature. If none of the licenses used for this

feature have a valid end date then this object will contain an octet string of length 0."  
 ::= { clmgmtLicensableFeatureEntry 7 }

clmgmtFeaturePeriodUsed OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the license period used for the feature."

::= { clmgmtLicensableFeatureEntry 8 }

--

MIB objects for exporting device credentials

clmgmtNextFreeDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

will get an error and the

process of reading this object and entry creation needs to be repeated."

::= { clmgmtLicenseDeviceInformation 1 }

-- Table for triggering action to export device credentials.

clmgmtDevCredExportActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for triggering device credentials export action."

Management application must create this entry to trigger the export of device credentials from the device to a file.

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

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

clmgmtDevCredExportActionEntry

OBJECT-TYPE

SYNTAX ClmgmtDevCredExportActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

#### 1. CREATE-AND-GO method

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

#### 2. CREATE-AND-WAIT method

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

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

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

failure can  
be retrieved from clmgmtDevCredCommandFailCause.

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

INDEX { clmgmtDevCredExportActionIndex }  
::= { clmgmtDevCredExportActionTable 1 }

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

clmgmtDevCredExportActionIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a row in  
clmgmtDevCredExportActionTable. The management application  
chooses this value by reading  
clmgmtNextFreeDevCredExportActionIndex while creating an  
entry in this table. If an entry already exists with this  
index, the creation of the entry will not continue and  
error will be returned. The management application should  
read the value of clmgmtNextFreeDevCredExportActionIndex  
again and retry with the new value for this object."

::= { clmgmtDevCredExportActionEntry 1 }

clmgmtDevCredEntPhysicalIndex OBJECT-TYPE

SYNTAX PhysicalIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

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

Note: This object need not be set if it is a stand alone device"

DEFVAL { 0 }  
::= { clmgmtDevCredExportActionEntry 2 }

#### clmgmtDevCredTransferProtocol OBJECT-TYPE

SYNTAX ClmgmtLicenseTransferProtocol

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object indicates the transfer protocol to be used when copying files as specified in the following objects.

1. clmgmtDevCredExportFile

."

DEFVAL { none }  
::= { clmgmtDevCredExportActionEntry  
3 }

#### clmgmtDevCredServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object indicates the transport type of the address contained in clmgmtDevCredServerAddress object.

This must be set when clmgmtDevCredTransferProtocol is not none(1) or local(2)."

DEFVAL { unknown }  
::= { clmgmtDevCredExportActionEntry 4 }

#### clmgmtDevCredServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

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

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

allowed.

The format of this address depends on the value of the  
clmgmtDevCredServerAddressType

object"

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 5 }

clmgmtDevCredServerUsername OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the remote user name for accessing files via ftp, rcp, sftp or scp protocols. This object must be set when the clmgmtDevCredTransferProtocol is ftp(4), rcp(5), scp(7) or sftp(8). If clmgmtDevCredTransferProtocol is rcp(5), the remote username is sent as the server username in an rcp command request sent by the system to a remote rcp server."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 6 }

clmgmtDevCredServerPassword OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..96))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the password used by ftp, sftp or scp for copying a file to/from an ftp/sftp/scp server.

This object must be set when the clmgmtDevCredTransferProtocol is ftp(4) or scp(7) or sftp(8). Reading it returns a zero-length string for security reasons."

DEFVAL { "" }

::= { clmgmtDevCredExportActionEntry 7 }

clmgmtDevCredExportFile OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object represents file where device credentials needs to be exported to."

::= { clmgmtDevCredExportActionEntry 8 }

clmgmtDevCredCommand OBJECT-TYPE



SYNTAX INTEGER {  
noOp(1),  
getDeviceCredentials(2)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the the command to be executed.

Command	Remarks
---------	---------

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

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

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

getDeviceCredentials(2)	Exports device credentials"
-------------------------	-----------------------------

DEFVAL { noOp }

::= { clmgmtDevCredExportActionEntry 9 }

clmgmtDevCredCommandState OBJECT-TYPE

SYNTAX ClmgmtLicenseActionState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the state of the action that is executed as a result of setting clmgmtDevCredRowStatus to active(1)."

::= { clmgmtDevCredExportActionEntry 10 }

clmgmtDevCredCommandFailCause OBJECT-TYPE

SYNTAX INTEGER {  
none(1),  
unknownError(2),  
transferProtocolNotSupported(3),  
fileServerNotReachable(4),  
unrecognizedEntPhysicalIndex(5),  
invalidFile(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

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

none(1) - action execution has not started yet.  
 If the action is completed and the  
 action is successful, then also  
 none(1) is returned to indicate that  
 there are no errors.  
 unknownError(2) - reason for failure is unknown,  
 operation failed, no operation is  
 performed  
 transferProtocolNotSupported(3) - clmgmtDevCredTransferProtocol  
 given is not supported.  
 fileServerNotReachable(4) - file server is not reachable.  
 unrecognizedEntPhysicalIndex(5) - entPhysicalIndex  
 is not  
     valid  
 invalidFile(6) - The target file specified is not valid."  
 ::= { clmgmtDevCredExportActionEntry 11 }

#### clmgmtDevCredStorageType OBJECT-TYPE

SYNTAX StorageType  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION

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

DEFVAL { volatile }  
 ::= { clmgmtDevCredExportActionEntry 12 }

#### clmgmtDevCredRowStatus OBJECT-TYPE

SYNTAX RowStatus  
 MAX-ACCESS read-create  
 STATUS current  
 DESCRIPTION

"This object indicates the the status of this table entry.  
 Once the entry status is set to active(1), the associated  
 entry cannot be modified until the action completes  
 (clmgmtDevCredCommandStatus is set to a value  
 other than

inProgress(3)). Once the action completes  
 the only operation possible after this is to delete  
 the row.

clmgmtDevCredExportFile is a mandatory object to be  
 set when creating this entry."

::= { clmgmtDevCredExportActionEntry 13 }

-- Objects for enabling/disabling notifications

clmgmtLicenseUsageNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate the notifications related to usage of licenses. This object enables/disables sending following notifications:

clmgmtLicenseExpired

clmgmtLicenseExpiryWarning

clmgmtLicenseUsageCountExceeded

clmgmtLicenseUsageCountAboutToExceed

clmgmtLicenseSubscriptionExpiryWarning

clmgmtLicenseSubscriptionExtExpiryWarning

clmgmtLicenseSubscriptionExpired

clmgmtLicenseEvalRTUTransitionWarning

clmgmtLicenseEvalRTUTransition"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 1 }

clmgmtLicenseDeploymentNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to license deployment. This object enables/disables sending following notifications:

clmgmtLicenseInstalled

clmgmtLicenseCleared

clmgmtLicenseRevoked

clmgmtLicenseEULAAccepted"

DEFVAL { true }

::= { clmgmtLicenseNotifObjects 2 }

clmgmtLicenseErrorNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates whether the device should generate notifications related to error conditions in enforcing licensing. This object

enables/disables sending following

notifications:

clmgmtLicenseNotEnforced"

```

DEFVAL      { true }
::= { clmgmtLicenseNotifObjects 3 }

-- Notifications

clmgmtLicenseExpired NOTIFICATION-TYPE
OBJECTS     {
            clmgmtFeatureName,
            clmgmtFeatureVersion
            }
STATUS      current
DESCRIPTION
    "This notification is sent, when a feature license
    expires. This notification will be sent continuously
    every week even after the expiry to alert the management
    application."
::= { ciscoLicenseMgmtMIBNotifs 1 }

clmgmtLicenseExpiryWarning NOTIFICATION-TYPE
OBJECTS     {
            clmgmtFeatureName,
            clmgmtFeatureVersion,
            clmgmtFeatureValidityPeriodRemaining
            }
STATUS      current
DESCRIPTION
    "This notification is sent when a license is about to

    expire. This notification will go out multiple times.
    First notification goes out when expiry day is 4 weeks
    ahead, second notification when expiry day is 3 weeks
    ahead, third notification when expiry day is 2 weeks
    ahead. This notification will go out daily in the
    last week of license expiry."
::= { ciscoLicenseMgmtMIBNotifs 2 }

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

```

```
::= { ciscoLicenseMgmtMIBNotifs 3 }
```

#### clmgmtLicenseUsageCountAboutToExceed NOTIFICATION-TYPE

```
OBJECTS    {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseMaxUsageCount,  
    clmgmtLicenseUsageCountRemaining,  
    clmgmtFeatureWhatIsCounted,  
    clmgmtLicenseComments  
}
```

```
STATUS     current
```

#### DESCRIPTION

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

```
::= { ciscoLicenseMgmtMIBNotifs 4 }
```

#### clmgmtLicenseInstalled NOTIFICATION-TYPE

```
OBJECTS    {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

```
STATUS     current
```

#### DESCRIPTION

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

```
::= { ciscoLicenseMgmtMIBNotifs 5 }
```

#### clmgmtLicenseCleared NOTIFICATION-TYPE

```
OBJECTS    {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseComments  
}
```

```
STATUS     current
```

#### DESCRIPTION

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

```
::= { ciscoLicenseMgmtMIBNotifs 6 }
```

clmgmtLicenseRevoked NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtLicenseFeatureName,
            clmgmtLicenseFeatureVersion,
            clmgmtLicenseType,
            clmgmtLicenseComments
        }
```

STATUS

current

DESCRIPTION

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

::= { ciscoLicenseMgmtMIBNotifs 7 }

clmgmtLicenseEULAAccepted NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion
        }
```

STATUS current

DESCRIPTION

"This notification is sent when a user accepts End User License Agreement (EULA) for a license."

::= { ciscoLicenseMgmtMIBNotifs 8 }

clmgmtLicenseNotEnforced NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion
        }
```

STATUS current

DESCRIPTION

"This notification is sent when a license does not exist for a feature, but the feature is a mandatory feature and it should run. This notification will be sent out periodically to indicate that there is no

license installed for this feature and it needs to be done as soon as possible."

::= { ciscoLicenseMgmtMIBNotifs 9 }

clmgmtLicenseSubscriptionExpiryWarning NOTIFICATION-TYPE

```
OBJECTS    {
            clmgmtFeatureName,
            clmgmtFeatureVersion,
            clmgmtFeatureEndDate
        }
```

STATUS current

#### DESCRIPTION

"This notification is sent when a subscription license of a feature is about to expire. This notification will be sent as per the following schedule:

Once a week for the last eight weeks

Once a day for the last week

Once a hour for the last day"

::= { ciscoLicenseMgmtMIBNotifs 10 }

#### clmgmtLicenseSubscriptionExtExpiryWarning NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureEndDate  
}

#### STATUS

current

#### DESCRIPTION

"This notification is sent when the subscription license end date of a feature is reached but extension period is left. This notification will be sent once a day after the license end date is reached."

::= { ciscoLicenseMgmtMIBNotifs 11 }

#### clmgmtLicenseSubscriptionExpired NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureEndDate  
}

STATUS current

#### DESCRIPTION

"This notification will be sent after a subscription license of a feature completely expires. It will be sent once a day after the license has completely expired"

::= { ciscoLicenseMgmtMIBNotifs 12 }

#### clmgmtLicenseEvalRTUTransitionWarning NOTIFICATION-TYPE

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
    clmgmtFeatureValidityPeriodRemaining  
}

STATUS current

#### DESCRIPTION

"This notification is sent when Evaluation to Right to use (RTU) license transition is about to happen. The first notification will be sent 10 days before the transition and second

```

notification will be sent 5 days before the transition."
::= { ciscoLicenseMgmtMIBNotifs 13 }

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

ciscoLicenseMgmtCompliances OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 1 }

ciscoLicenseMgmtGroups OBJECT IDENTIFIER
::= { ciscoLicenseMgmtMIBConform 2 }

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

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

ciscoLicenseMgmtComplianceRev1 MODULE-COMPLIANCE

```



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

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

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

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

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

```
GROUP      clmgmtLicenseRTUUsageNotifGroup
DESCRIPTION
  "This notification group is mandatory for all devices that
  support Right to use (RTU) licensing."
::= { ciscoLicenseMgmtCompliances 2 }
```

-- Units of Conformance

```
clmgmtLicenseDeploymentGroup OBJECT-GROUP
OBJECTS      {
    clmgmtNextFreeLicenseActionIndex,
```

clmgmtLicenseActionEntPhysicalIndex,  
clmgmtLicenseActionTransferProtocol,  
clmgmtLicenseServerAddressType,  
clmgmtLicenseServerAddress,  
clmgmtLicenseServerUsername,  
clmgmtLicenseServerPassword,  
clmgmtLicenseFile,  
clmgmtLicenseStore,  
clmgmtLicenseActionLicenseIndex,  
clmgmtLicensePermissionTicketFile,  
clmgmtLicenseRehostTicketFile,  
clmgmtLicenseBackupFile,  
clmgmtLicenseStopOnFailure,  
clmgmtLicenseAction,  
clmgmtLicenseActionState,  
clmgmtLicenseJobQPosition,  
clmgmtLicenseActionFailCause,  
clmgmtLicenseActionStorageType,  
clmgmtLicenseActionRowStatus,  
clmgmtLicenseIndivActionState,  
clmgmtLicenseIndivActionFailCause,  
clmgmtLicenseAcceptEULA,  
clmgmtLicenseEULAFile

}

STATUS current

DESCRIPTION

"A collection of objects for performing license deployment  
i.e., license installation, clear and revoke"

::= { ciscoLicenseMgmtGroups 1 }

clmgmtLicenseStoreInformationGroup OBJECT-GROUP

OBJECTS {

clmgmtLicenseStoreName,  
clmgmtLicenseStoreTotalSize,  
clmgmtLicenseStoreSizeRemaining

}

STATUS current

DESCRIPTION

"A collection of objects that provide information about  
license storages in the device."

::= { ciscoLicenseMgmtGroups 2 }

clmgmtLicenseDeviceInformationGroup OBJECT-GROUP

OBJECTS { clmgmtDefaultLicenseStore }

STATUS current

DESCRIPTION

"A collection of objects that provide information about

device level licensing support information in the device."  
 ::= { ciscoLicenseMgmtGroups 3 }

clmgmtLicenseInformationGroup OBJECT-GROUP

OBJECTS {  
    clmgmtLicenseFeatureName,  
    clmgmtLicenseFeatureVersion,  
    clmgmtLicenseType,  
    clmgmtLicenseCounted,  
    clmgmtLicenseValidityPeriod,  
    clmgmtLicenseValidityPeriodRemaining,  
    clmgmtLicenseExpiredPeriod,  
    clmgmtLicenseMaxUsageCount,  
    clmgmtLicenseUsageCountRemaining,  
    clmgmtLicenseEULAStatus,  
    clmgmtLicenseComments,  
    clmgmtLicenseStatus  
}

STATUS current

DESCRIPTION

"A collection of objects that provide information about licenses and its state."

::= { ciscoLicenseMgmtGroups 4 }

clmgmtLicensableFeatureInformationGroup OBJECT-GROUP

OBJECTS {  
    clmgmtFeatureName,  
    clmgmtFeatureVersion,  
  
    clmgmtFeatureValidityPeriodRemaining,  
    clmgmtFeatureWhatIsCounted  
}

STATUS current

DESCRIPTION

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

::= { ciscoLicenseMgmtGroups 5 }

clmgmtLicenseDevCredGroup OBJECT-GROUP

OBJECTS {  
    clmgmtNextFreeDevCredExportActionIndex,  
    clmgmtDevCredEntPhysicalIndex,  
    clmgmtDevCredTransferProtocol,  
    clmgmtDevCredServerAddressType,  
    clmgmtDevCredServerAddress,  
    clmgmtDevCredServerUsername,  
    clmgmtDevCredServerPassword,  
    clmgmtDevCredExportFile,  
}

clmgmtDevCredCommand,  
clmgmtDevCredCommandState,  
clmgmtDevCredCommandFailCause,

clmgmtDevCredStorageType,  
clmgmtDevCredRowStatus  
}

STATUS current

DESCRIPTION

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

::= { ciscoLicenseMgmtGroups 6 }

clmgmtLicenseNotificationEnableGroup OBJECT-GROUP

OBJECTS {  
clmgmtLicenseUsageNotifEnable,  
clmgmtLicenseDeploymentNotifEnable,  
clmgmtLicenseErrorNotifEnable  
}

STATUS current

DESCRIPTION

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

::= { ciscoLicenseMgmtGroups 7 }

clmgmtLicenseUsageNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {  
clmgmtLicenseExpired,  
clmgmtLicenseExpiryWarning,  
clmgmtLicenseUsageCountExceeded,  
  
clmgmtLicenseUsageCountAboutToExceed  
}

STATUS current

DESCRIPTION

"A collection of notifications related to license usage."

::= { ciscoLicenseMgmtGroups 8 }

clmgmtLicenseDeploymentNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {  
clmgmtLicenseInstalled,  
clmgmtLicenseCleared,  
clmgmtLicenseRevoked,  
clmgmtLicenseEULAAccepted  
}

STATUS current

DESCRIPTION

"A collection of notifications related to license deployment."  
 ::= { ciscoLicenseMgmtGroups 9 }

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

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

clmgmtLicenseSubscriptionUsageNotifGroup NOTIFICATION-GROUP  
 NOTIFICATIONS {  
 clmgmtLicenseSubscriptionExpiryWarning,  
 clmgmtLicenseSubscriptionExtExpiryWarning,  
 clmgmtLicenseSubscriptionExpired  
 }  
 STATUS current  
 DESCRIPTION  
 "A collection of notifications related to usage of subscription  
 licenses."  
 ::= { ciscoLicenseMgmtGroups 12 }

clmgmtLicenseRTUGroup OBJECT-GROUP  
 OBJECTS {  
 clmgmtLicensePeriodUsed,  
 clmgmtFeaturePeriodUsed  
 }  
 STATUS current  
 DESCRIPTION  
 "A collection of objects that provide information specific to  
 Right to use (RTU) licenses."  
 ::= { ciscoLicenseMgmtGroups 13 }

clmgmtLicenseRTUUsageNotifGroup NOTIFICATION-GROUP

```
NOTIFICATIONS {
    clmgmtLicenseEvalRTUTransitionWarning,
    clmgmtLicenseEvalRTUTransition
}
STATUS current
DESCRIPTION
    "A collection of notifications related to Right to use (RTU)
    licenses."
::= { ciscoLicenseMgmtGroups 14 }
```

END

--%DNP% MLC -Edit MLC

--%DNP% MTF -TRUE MTF

/\*

\* Generated by nsc --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 jnxLicenseRenewBeforeExpiration {

type int32;

description

"License renew lead time before expiration in days.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.1";

}

leaf jnxLicenseRenewInterval {

type int32;

description

"License checking interval in hours.";

smiv2:max-access "read-only";

smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.2";

}

leaf jnxLicenseAutoUpdate {

type snmpv2-tc:DisplayString;

```

description
  "License auto update URL of a license server.";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2.3";
}
}

container jnxLicenseInstallTable {
  description
    "This table contains installed
feature license information.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1";

  list jnxLicenseInstallEntry {
    key "jnxLicenseId";
    smiv2:implied "jnxLicenseId";
    description
      "A row of giving installed feature license information.";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1";

    leaf jnxLicenseId {
      type snmpv2-tc:DisplayString;
      description
        "Installed feature licenses Id.";
      smiv2:max-access "not-accessible";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.1";
    }

    leaf jnxLicenseVersion {
      type int32;
      description
        "License Version information";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.2";
    }

    leaf jnxLicenseDeviceId {
      type snmpv2-tc:DisplayString;
      description
        "License Device Id ";
      smiv2:max-access "read-only";
      smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.3";
    }

    leaf jnxLicenseType {
      type enumeration {
        enum "invalid" {
          value "0";

```



```

    }
    enum "count-down" {
        value "1";
    }
    enum "date-based" {
        value "2";
    }
    enum "permanent" {
        value "3";
    }
    }
    description
    "License type information";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.4";
}

```

```

leaf jnxLicenseKeys {
    type binary;
    status deprecated;
    description
    "***** THIS OBJECT IS DEPRECATED *****
    This object is deprecated,
    it displays all the license keys
    in the system.";
    smiv2:max-access "read-only";
    smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.5";
}

```

```

leaf jnxLicenseKeyType {
    type enumeration
{
    enum "commercial" {
        value "1";
    }
    enum "trial" {
        value "2";
    }
    enum "demo" {
        value "3";
    }
    enum "emergency" {
        value "4";
    }
    enum "lab" {
        value "5";
    }
    enum "education" {

```

```

        value "6";
    }
}
description
    "License key type";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.1.1.6";
}
}
}

```

```

container jnxLicenseFeatureListTable {
description
    "list of features supporting Licensing.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2";

```

```

list jnxLicenseFeatureListEntry {
key "jnxLicenseFeatureId";
description
    "A row of licensed features.";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1";

```

```

leaf jnxLicenseFeatureId {
type int32;
description
    "Feature Id to point an entry in this table";
smiv2:max-access "not-accessible";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.1";
}

```

```

leaf jnxLicenseFeatureName {
type snmpv2-tc:DisplayString;
description
    "Feature Name";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.2";
}

```

```

leaf jnxLicenseFeatureDescr {
type snmpv2-tc:DisplayString;
description
    "Feature Name";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.3";
}

```

```

leaf jnxLicenseFeatureLicenseId {
type snmpv2-tc:DisplayString;

```

```

description
  "Feature License Id";
smiv2:max-access "read-only";
smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.4";
}

leaf jnxLicenseFeatureLicenseUsed {
  type int32;
  description

  "Licenses Used";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.5";
}

leaf jnxLicenseFeatureLicenseInstalled {
  type int32;
  description
  "Licenses Installed";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.6";
}

leaf jnxLicenseFeatureLicenseNeeded {
  type int32;
  description
  "Licenses Needed";
  smiv2:max-access "read-only";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1.2.1.7";
}
}
}
}

notification jnxLicenseGraceExpired {
  description
  "The SNMP trap that is generated when the license grace period for
  feature identified by jnxLicenseFeatureName is expired";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.1";

  container object-1 {

    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
        license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }
}

```

```

leaf jnxLicenseFeatureName {
  type leafref {
    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
  }
}

```

```

notification jnxLicenseGraceAboutToExpire {
  description
    "The SNMP trap that is generated when the license grace period for
feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.2";

```

```

container object-1 {

```

```

  leaf jnxLicenseFeatureId {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
    }
  }

```

```

  leaf jnxLicenseFeatureName {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
    }
  }
}

```

```

notification jnxLicenseAboutToExpire {
  description
    "The SNMP trap that is generated when the license period for
feature identified by jnxLicenseFeatureName is about to expire";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.3";

```

```

container object-1 {

```

```

  leaf jnxLicenseFeatureId {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
    }
  }
}

```

```

leaf jnxLicenseFeatureName {
  type leafref {
    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
  }
}

```

```
notification jnxLicenseInfringeCumulative
```

```
{
  description
    "The SNMP trap that is generated when the feature is used more
    times than as specified in number of licenses allowed for feature
    as identified by jnxLicenseFeatureName";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.4";

```

```
container object-1 {
```

```

  leaf jnxLicenseFeatureId {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
    }
  }

```

```

  leaf jnxLicenseFeatureName {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
    }
  }
}

```

```
notification jnxLicenseInfringeSingle {
```

```

  description
    "The SNMP trap that is generated when the license for feature
    identified by jnxLicenseFeatureName is not valid i.e. either
    expired or
    not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.5";

```

```
container object-1 {
```

```

  leaf jnxLicenseFeatureId {
    type leafref {

```

```
    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
  }
}
```

```
leaf jnxLicenseFeatureName {
  type leafref {
    path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
  }
}
}
```

```
notification jnxLicenseKeyExpired {
  description
  "The SNMP trap that is generated when the license for feature
  identified by jnxLicenseFeatureName is not valid i.e. either expired or
  not available.";
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0.6";
```

```
  container object-1 {
```

```
    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }
```

```
    leaf jnxLicenseFeatureName {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureName";
      }
    }
  }
```

```
  container object-2 {
```

```
    leaf jnxLicenseFeatureId {
      type leafref {
        path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureId";
      }
    }
  }
```

```
    leaf jnxLicenseFeatureLicenseId {
```

```

    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseFeatureListTable/juniper-
license:jnxLicenseFeatureListEntry/juniper-license:jnxLicenseFeatureLicenseId";
    }
  }
}

container object-3
{

  leaf jnxLicenseId {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseId";
    }
  }

  leaf jnxLicenseKeyType {
    type leafref {
      path "/juniper-license:JUNIPER-LICENSE-MIB/juniper-license:jnxLicenseInstallTable/juniper-
license:jnxLicenseInstallEntry/juniper-license:jnxLicenseKeyType";
    }
  }
}

smiv2:alias "jnxLicenseMIB" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1";
}

smiv2:alias "jnxLicenseNotifications" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.0";
}

smiv2:alias "jnxLicenseObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1";
}

smiv2:alias "jnxLicenseInstallObjects" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.1";
}

smiv2:alias "jnxLicenseSettings" {
  smiv2:oid "1.3.6.1.4.1.2636.3.63.1.1.2";
}
}

```

```
module Cisco-IOS-XR-smart-license-cfg {
  namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-smart-license-cfg";
  prefix smart-license-cfg;

  import ietf-inet-types {
    prefix inet;
  }
  import Cisco-IOS-XR-types {
    prefix xr;
  }
  import cisco-semver {
    prefix semver;
  }

  organization
    "Cisco Systems, Inc.";
  contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
  description
    "This module contains a collection of YANG definitions
    for Cisco IOS-XR smart-license package configuration.

    This module contains definitions
    for the following management objects:
    licensing: SmartLicense Root
    flex-consumption: FCM configuration

    Copyright (c) 2013-2022 by Cisco Systems, Inc.
    All rights reserved.";

  revision 2022-12-22 {
    description
      "Changed parent class of flex-consumption";
    semver:module-version
    "2.0.0";
  }
  revision 2019-04-05 {
    description
      "Establish semantic version baseline.";
    semver:module-version "1.0.0";
```



```

}
revision 2017-07-21 {
  description
    "Initial version.";
}
revision 2015-11-09 {
  description
    "IOS XR 6.0 revision.";
}

typedef Transport-type-enum {
  type enumeration {
    enum "transport-type-callhome" {
      value 0;
      description
        "Use the Callhome as transport";
    }
    enum "transport-type-smart" {
      value 1;
      description
        "Use the smart as transport";
    }
  }
  description
    "Transport type enum";
}

container licensing {
  description
    "SmartLicense Root";
  container transport {
    description
      "Select the type of message transport for Smart
      Agent";
    container transport-smart {
      description
        "Smart transport config for Smart Agent";
    }
    container proxy {
      description
        "Proxy related commands";
      leaf port {
        type inet:port-number;
        description
          "The proxy port";
      }
      leaf host-name {
        type xr:Cisco-ios-xr-string {
          length "1..200";
        }
      }
    }
  }
}

```

```

    }
    description
        "The IP address or hostname of the Proxy";
    }
}
container urls {
    description
        "URL for smart transport";
    leaf url-registration {
        type string {
            length "1..200";
        }
        description
            "Use the URL for Smart Transport registration";
    }
}
leaf transport-type {
    type Transport-type-enum;
    description
        "Select the type of message transport for Smart
        Licensing";
}
}
}
container flex-consumption {
    description
        "FCM configuration";
    leaf fcm-enable {
        type boolean;
        description
            "Enable or disable";
    }
    leaf software-upgrade-enable {
        type boolean;
        description
            "Software-upgrade mode enabled";
    }
    leaf reservation {
        type boolean;
        description
            "License Smart Reservation Enabled";
    }
}
}
}
module Cisco-IOS-XR-infra-smartlicense-oper {
    namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-infra-smartlicense-oper";
    prefix infra-smartlicense-oper;
}

```

```

import cisco-semver {
  prefix semver;
}
include Cisco-IOS-XR-infra-smartlicense-oper-sub1 {
  revision-date 2019-04-05;
}

organization
  "Cisco Systems, Inc.";
contact
  "Cisco Systems, Inc.
  Customer Service

  Postal: 170 West Tasman Drive
  San Jose, CA 95134

  Tel: +1 800 553-NETS

  E-mail: cs-yang@cisco.com";
description
  "This module contains a collection of YANG definitions
  for Cisco IOS-XR infra-smartlicense package operational data.

  This module contains definitions
  for the following management objects:
  smart-agent: Information of Smart License list and operations

  Copyright (c) 2013-2019 by Cisco Systems, Inc.
  All rights reserved.";

revision 2019-04-05 {
  description
    "Establish semantic version baseline.";

  semver:module-version "1.0.0";
}
revision 2015-11-09 {
  description
    "IOS XR 6.0 revision.";
}

container smart-agent {
  config false;
  description
    "Information of Smart License list and operations";
  container licensing {
    description

```

```

    "Smart Licensing Module Information";
    uses SMARTAGENT-LICENSING-INFO;
  }
}
}
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 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 advservices 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 11, 12 and 13 in the ascending order of

priority, then by default 11 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";
}

}
submodule Cisco-IOS-XR-smart-license-errors {
    belongs-to Cisco-IOS-XR-smart-license-act {
        prefix smart-license-act;
    }
}

import cisco-semver {
    prefix semver;
}

organization
    "Cisco Systems, Inc.";
contact
    "Cisco Systems, Inc.
    Customer Service
    Postal: 170 W Tasman Drive
    San Jose, CA 95134
    Tel: +1 1800 553-NETS
    E-mail: cs-yang@cisco.com";
description
    "Smart licensing error codes.

```

Copyright (c) 2016-2020 by Cisco Systems, Inc.  
All rights reserved.";

```
revision 2020-02-03 {  
  description  
    "Added support for policies & usage reporting.  
    deprecated some functionality.";  
  reference "https://software.cisco.com/";  
  semver:module-version "1.0.0";  
}  
revision 2017-10-11 {  
  description  
    "Initial Revision of the error codes";  
}
```

```
typedef error-enum {  
  type enumeration {  
    enum "success" {  
      value 0;  
      description  
        "Success";  
    }  
    enum "malloc" {  
      value  
1;  
      description  
        "Malloc Error";  
    }  
    enum "nullpointer" {  
      value 2;  
      description  
        "Null pointer Error,  
        it may also mean non existence of file  
        in cases where files are provided as input";  
    }  
    enum "error3" {  
      value 3;  
      description  
        "deprecated DO NOT remove";  
    }  
    enum "error4" {  
      value 4;  
      description  
        "deprecated DO NOT remove";  
    }  
    enum "error5" {  
      value 5;
```

```

description
  "deprecated DO NOT remove";
}
enum "BadInputParams" {
  value 6;
  description
    "Bad input parameter";
}
enum "error7" {
  value 7;
  description
    "deprecated DO NOT remove";
}
enum "badhandle" {
  value 8;
  description
    "Bad handle";
}
enum "notfound" {
  value 9;
  description
    "The requested item was not found";

}
enum "notsupported" {
  value 10;
  description
    "The requested operation is not supported";
}
enum "alreadyinit" {
  value 11;
  description
    "Init failed because the agent is already initialized";
}
enum "notinit" {
  value 12;
  description
    "API failed because the agent is not initialized";
}
enum "smfailtocreate" {
  value 13;
  description
    "State machine creation failed";
}
enum "smfailtorun" {
  value 14;
  description
    "State machine not running";
}

```

```

}
enum "smfailtoinit" {
  value 15;
  description
    "State machine failed to init";
}
enum "smfailtodestroy" {
  value 16;
  description
    "State machine failed to destroy";
}
enum "msgparse" {
  value 17;
  description
    "message parsing error";
}
enum "msgbuild" {
  value 18;
  description
    "message building error";
}
enum "notenabled" {
  value 19;
  description
    "Smart Agent not enabled";
}
enum "invalidrequest" {
  value 20;
  description
    "Smart Agent request invalid";
}
enum "init" {
  value 21;
  description
    "General initialization error. We call a number of
    system routines to
    initialize system resources and we can't translate their error
    codes to Smart Agent error codes. The log should have a detailed
    description of the error.";
}
enum "failtosetState" {
  value 22;
  description
    "Smart Agent Fail to set state";
}
enum "unsupportedresponse" {
  value 23;
  description

```

```

    "Unsupported response type";
}
enum "invalidresponse" {
    value 24;
    description
        "Invalid response type";
}
enum "storagefailtostore" {
    value 25;
    description
        "Smart Agent Trusted Storage failed to store*";
}
enum "storagefailtoretrieve" {
    value 26;
    description
        "Smart Agent Trusted Storage failed to retrieve*";
}
enum "nullccoidtoken" {
    value 27;
    description
        "Null CCOId and IdToken";
}
enum "matchidentifier" {
    value 28;
    description
        "Product Instance identifier failed to match";
}
enum "matchvendor" {
    value 29;
    description
        "Vendor string failed to match";
}
enum "matchnonce" {
    value 30;
    description
        "nonce failed to match";
}
enum "commdisabled" {
    value 31;
    description
        "communication channel error. Comm layer (call home) is disabled ";
}
enum "commsend" {
    value 32;
    description
        "Call Home message send

```

```

error. probably a timeout so we
    will retry the send. any other error from the comm send should
    be a permanent failure";
}
enum "commresponse" {
    value 33;
    description
        "Call Home message send response error";
}
enum "communkown" {
    value 34;
    description
        "Call Home unknown error";
}
enum "smpostnotallow" {
    value 35;
    description
        "State machine Operation not permitted";
}
enum "reqmsgmissingmandatoryfield" {
    value 36;
    description
        "Missing mandatory field in request message";
}
enum "responsefailed" {
    value 37;
    description
        "We received a failure status in a response message.
        The log will contain a error message";
}
enum "pinotinit" {
    value 38;
    description
        "PI not initialized ";
}
enum "alreadyenabled" {
    value 39;
    description
        "The agent cannot be enabled more than once";
}
enum "alreadyregistered" {
    value 40;
    description
        "The agent is already registered";
}
enum "certinvalid" {
    value 41;
    description

```

```

    "The certificate is invalid ";
}
enum "certexpired" {
    value 42;
    description
        "The certificate has expired ";
}
enum "notregistered" {
    value 43;
    description
        "The agent is not registered ";
}
enum "csrgenerationfailed" {
    value 44;
    description
        "The CSR generation failed ";
}
enum "verifysignaturefailed" {
    value 45;
    description
        "Signature Verification failed ";
}
enum "generatesignaturefailed" {
    value 46;
    description
        "Signature Generation failed ";
}
enum "signcertverificationfailed" {
    value 47;
    description
        "Signing Certificate Verification failed ";
}
enum "nodecertverificationfailed" {
    value 48;
    description
        "Node Certificate Verification failed ";
}
enum "parsecertificatefailed" {
    value 49;
    description
        "Certificate Parsing failed ";
}
enum "cryptorootcaimportfailed" {
    value 50;
    description
        "Root Certificate Import failed ";
}
enum "taginvalid" {

```



```

value 51;
description
  "The tag is invalid ";
}
enum "standby" {
value 52;
description
  "Smart agent is running on a standby RP ";
}
enum "registrationinprogress" {
value 53;
description
  "Smart agent id token registration is in progress";
}
enum "commretry" {
value 54;
description
  "Call Home is not ready because it is in restart ipc";
}
enum "authrenewinprogress"
{
value 55;
description
  "Smart agent authorization renew is in progress";
}
enum "idcertrenewinprogress" {
value 56;
description
  "Smart agent id certificate renew is in progress";
}
enum "noudichange" {
value 57;
description
  "Udi List Has Not been changed ";
}
enum "callhomeserviceoff" {
value 58;
description
  "Call home service cannot be turned on. ";
}
enum "msgexecinprogress" {
value 59;
description
  "message execution already in progress";
}
enum "msgexecinproglocked" {
value 60;
description

```

```

    "message execution in progress flag is locked";
}
enum "certmatchessubsetudis" {
    value 61;
    description
        "The ID cert only matches some of the system Udi's";
}
enum "storagegroupchangeincomplete" {
    value 62;
    description
        "A Storage group has not all been changed";
}
enum "storagemgmtnotinit" {
    value 63;
    description
        "Storage Management is not Init";
}
enum "tspathnotchanged" {
    value 64;
    description
        "TS System Path list is not changed ";
}
enum "cryptoinitnotcompleted" {
    value 65;
    description
        "Crypto Initialization is not completed";
}
enum "notinunidentified" {
    value 66;
    description
        "The agent is not in unidentified state ";
}
enum "platformpathinvalid" {
    value 67;
    description
        "The platform provided path is invalid ";
}
enum "platformudiinvalid" {
    value 68;
    description
        "The platform provided UDI is invalid ";
}
enum "storageobjfailtcreate" {
    value 69;
    description
        "failed to create Trusted Store object ";
}
enum

```

```

"storageobjfailtoerase" {
  value 70;
  description
    "failed to erase trusted store object ";
}
enum "storageobjdoesnotexist" {
  value 71;
  description
    "trusted storage object/file does not exist";
}
enum "messageeventexceedspeer" {
  value 72;
  description
    "The message event is beyond the peer ";
}
enum "codevalidationfailed" {
  value 73;
  description
    "Validation of the authorization key failed.
    It probably does not match the UDI. The device will go to
    the unidentified state (not registered)";
}
enum "reserved" {
  value 74;
  description
    "operation not supported because the agent is running in
    permanent License reservation mode";
}
enum "noreservationinprogress" {
  value 75;
  description
    "No license reservation is in progress ";
}
enum "noauthorizationinstalled"
{
  value 76;
  description
    "No authorization code instaled in device ";
}
enum "reservationmismatch" {
  value 77;
  description
    "The reservation authorization code does not match the
    reservation request code";
}
enum "notreservationmode" {
  value 78;
  description

```

```

    "not in license reservation mode ";
}
enum "reservationerror" {
    value 79;
    description
        " General reservation error. This is used with the API
        functions that are called by the CLI. the API will return a
        very specific displayString that describes the error.";
}
enum "sysmgrinit" {
    value 80;
    description
        "Sysmgr Init Failed ";
}
enum "alreadyexists" {
    value 81;
    description
        "Generic error for something already existing ";
}
enum "listinsertfailed" {
    value 82;
    description
        "Error in object insert to xos list ";
}
enum "sessionmgmtnotinit" {
    value 83;
    description
        "Session management not initialized";
}
enum "listinitfailed" {
    value 84;
    description
        "Error Creating Linked List";
}
enum "listbusy" {
    value 85;
    description
        "List in use";
}
enum "noclients" {
    value 86;
    description
        "No Connected Clients ";
}
enum "ipc" {
    value 87;
    description
        "Generic IPC layer error ";
}

```

```
}
enum "ipcopen" {
  value 88;
  description
    "The IPC socket open error ";
}
enum "ipcinit" {
  value 89;
  description
    "The IPC Initialization error ";
}
enum "ipconnect" {
  value 90;
  description
    "The IPC Connection error ";
}
enum "ipcevents" {
  value 91;
  description
    "The IPC Server Event error ";
}
enum "ipcmgmt" {
  value 92;
  description
    "The IPC Management error ";
}
enum "ipcsend" {
  value 93;
  description
    "The IPC Send error ";
}
enum "ipcreceive" {
  value 94;
  description
    "The IPC Receive error ";
}
enum "ipctimeout" {
  value 95;
  description
    "The IPC timeout error ";
}
enum "enqueuefailed" {
  value 96;
  description
    "Failed to enqueue a message to the IPC Queue";
}
enum "dequeuefailed" {
  value 97;
```

```

description
  "Failed to dequeue a message from the IPC queue";
}
enum "shuttingdown" {
  value 98;
  description
    "Fail because we are about to shutdown and we need
    to stop processing any more messages or responses";
}
enum "couldnotvalidatetrustchain"
{
  value 99;
  description
    "Could not validate Trust Chain";
}
enum "reservationalreadyinstalled" {
  value 100;
  description
    "The reservation authorization code is already installed ";
}
enum "reservationinstallparsefail" {
  value 101;
  description
    "Failed to parse reservation authorization code ";
}
enum "base64encoding" {
  value 102;
  description
    "Base64 encoding failed ";
}
enum "base64decoding" {
  value 103;
  description
    "Base64 decoding failed ";
}
enum "invalidsoftwareidtag" {
  value 104;
  description
    "Failed to find UUID inside software id tag ";
}
enum "certificatemismatch" {
  value 105;
  description
    "Development certificates are being used with Production
    Root certificate ";
}
enum "noreservation" {
  value 106;

```

```

    description
    "No License Reservation ";
}
enum "agentunreachable" {
    value 107;
    description
    "the agent Daemon is unreachable ";
}
enum "ignoreevent" {
    value 108;
    description
    "the agent ignores event ";
}
enum "b58overflow" {
    value 109;
    description
    "Base58 overflow, number too large. ";
}
enum "b58decode" {
    value 110;
    description
    "Base58 decode error. ";
}
enum "b58badlen" {
    value 111;
    description
    "Bad base58 length. ";
}
enum "b58invdigit" {
    value 112;
    description
    "Invalid base58 digit. ";
}
enum "b58decodeoverflow" {
    value 113;
    description
    "Overflow detected during base58 decode. ";
}
enum "reservationversionoutofbound" {
    value 114;
    description
    "Reservation version out
of bound ";
}
enum "base58encode" {
    value 115;
    description
    "General Base58 encoding error ";
}

```

```

}
enum "duplicatedentry" {
  value 116;
  description
    "General error code for adding item that already exists.
    Used in App HA setup when adding an HA peer device info that
    is already added ";
}
enum "missingentry" {
  value 117;
  description
    "General error code for trying to remove item that do
    not exist. Used in App HA setup when removing an HA peer device
    info that does not exist";
}
enum "badpeerinfoformat" {
  value 118;
  description
    "The given peer info contain incorrect data format ";
}
enum "badapplicationhaattributedataset" {
  value 119;
  description
    "The given handle attribute list contains incomplete
    application HA attributes";
}
enum "reservationinprogress"
{
  value 120;
  description
    "license reservation is in progress ";
}
enum "xdmcreatehandle" {
  value 121;
  description
    "The xos_dm_create() failure causes this error code to be return ";
}
enum "versionmismatchinentitlementrsp" {
  value 122;
  description
    "Version in entitlement response message does not match
    with the
    one already saved from last completed response message. We need
    to send entitlement request again with proper version and data";
}
enum "harolenotsupported" {
  value 123;
  description

```



```

    "Given valid HA Role is not supported by this operation.
    For Application HA valid roles are Active or Standby.";
}
enum "apphainvalidcharacter" {
    value 124;
    description
        "Application HA attribute contains invalid character.
        Character set supported is alphanumeric.";
}
enum "appaaddpeerfromsamedevice" {
    value 125;
    description
        "The peer info given is from the same device. ";
}
enum "appaappduplicatedinstance" {
    value 126;
    description
        "When setting Application HA Attribute, a different
        handle with exactly
        same tag, app ha name, app ha id exists in the agent.";
}
enum "versionmismatchinregresponse" {
    value 127;
    description
        "Backend server does not support AppHA enabled message
        version. So
        registration response (from backend) received with status set as
        FAILED or VERSION_TOO_HIGH.";
}
enum "conversionnocb" {
    value 128;
    description
        "Migration function was called but there are no i
        call backs registered ";
}
enum "conversionnotallowed" {
    value 129;
    description
        "Migration was not enabled with
the
        MIGRATION_ALLOWED property ";
}
enum "conversioninprogress" {
    value 130;
    description
        "Migration is in progress ";
}
enum "conversionalreadystarted" {

```

```

value 131;
description
  "Migration has already been started ";
}
enum "conversionnotenabled" {
value 132;
description
  "Migration is not enabled ";
}
enum "versionconversionnotsupported" {
value 133;
description
  "The backend server this device is connected to does
  not support conversion";
}
enum "noconversioninprogress" {
value 134;
description
  "No conversion in progress";
}
enum "cryptoversionmismatch" {
value 135;
description
  "Loaded OpenSSL version is not the same as used for
  development";
}
enum "conversionstoppedpartially" {
value 136;
description
  "Some Smart Licensing Conversion jobs stopped successfully";
}
enum "utilityenabled" {
value 137;
description
  "Operation is not supported because Utility management
  is enabled";
}
enum "utilitynotenabled" {
value 138;
description
  "Utility is not enabled";
}
enum "transportnotavailable" {
value 139;
description
  "Transport layer not available";
}
enum "fqdn" {

```

```

value 140;
description
  "Unable to get FQDN";
}
enum "thirdparty" {
value 141;
description
  "The current transport type does not support this feature";
}
enum "transporttype" {
value 142;
description
  "The transport type needed is not configured";
}
enum "transportconfig" {
value 143;
description
  "A feature required a specific transport configuration
  which is not configured";
}
enum "IPCMsgVersion" {
value 144;
description
  "Internal IPC error indicating an IPC version mismatch";
}
enum "IPCFeatureDisabled" {
value 145;
description
  "Internal IPC error.
  The feature related to the IPC message is not available";
}
enum "IPCErrorCode" {
value 146;
description
  "Internal IPC error.
  The other side does not understand this error code";
}
enum "NotAuthorized" {
value 147;
description
  "Entitlement not authorized.
  Returned from the entitlement request call if the
  entitlement tag (license) cannot be authorized.
  The feature should not run if it gets this return code.
  This error code will only be returned under the
  following conditions:
  - Specific License Reservation (SLR) mode is in use

```

- The authorization code installed does not contain the requested entitlement tag.
- The authorization code installed does not contain enough counts to satisfy the request.
- The entitlement tag is export restricted and is not export authorized.";

```

}
enum "ExportAllowed" {
  value 148;
  description
    "When the global export compliance flag is set to true,
    this error code be returned when calling export control
    APIs functions";
}
enum "NotExportRestricted" {
  value 149;
  description
    "This error code will be returned when calling export
    control API functions to request or return export
    authorization key for a feature
    that is not export restricted.";
}
enum "NoKey" {
  value 150;
  description
    "No authorization key to be returned.
    This error code will
be returned when there is a
    request for export return key but the authorization
    key for the feature does not exist.";
}
enum "OperationInProgress" {
  value 151;
  description
    "The requested operation is already in progress";
}
enum "ReservationNoAuthCodeFound" {
  value 152;
  description
    "No authorization code found in meta file for the devices
    in this High Availability (HA) stack.
    Returned from the reservation install routine.";
}
enum "PreviouslyInstalled" {
  value 153;
  description
    "The user tried to install a reservation authorization
    code but it has been used previously";
}

```

```

}
enum "IsExportRestricted" {
  value 154;
  description
    "The Entitlement tag is export restricted";
}
enum "ExportRestrictedAuth" {
  value 155;
  description
    "Export authorization keys
are installed";
}
enum "NoOperation" {
  value 156;
  description
    "There is no export key request or export return request
in progress.";
}
enum "MsgSizeExceed" {
  value 157;
  description
    "Message size exceed the limit";
}
enum "TelemetryNotEnabled" {
  value 158;
  description
    "Telemetry not enabled";
}
enum "NoURL" {
  value 159;
  description
    "No URL is configured";
}
enum "AuthKeyRequestInProgress" {
  value 160;
  description
    "The export authorization key request is in progress";
}
enum "AuthKeyReturnInProgress" {
  value 161;
  description
    "The export authorization key return is in progress";
}
enum "ErrorOkTryAgain" {
  value 162;
  description
    "CSSM requested to try again";
}
}

```

```

enum "MismatchEntitlementRequest" {
value 163;
description
  "Mismatch in the entitlement request";
}
enum "InvalidAuthCodeType" {
value 164;
description
  "Invalid authorization code type for a particular operation";
}
enum "InvalidXML" {
value 165;
description
  "XML PArser fails to get an expected Node";
}
enum "ThreadDeadLock" {
value 166;
description
  "Mutex Error, This Thread already owns this lock";
}
enum "MutexPreviouslyInit" {
value 167;
description
  "Mutex Error. This Mutex was previously initialized";
}
enum "MutexInvalid" {
value 168;
description
  "Mutex Error, This is an invalid Mutex";
}
enum "MutexBusy" {
value 169;
description
  "Mutex Error. This Mutex is still busy and cannot be destroyed";
}
enum "MutexNotOwner" {
value 170;
description
  "Mutex Error. The current thread is not the owner of the mutex";
}
enum "LicenseInUse" {
value 171;
description
  "Enforced/ExportRestricted License is in use";
}
enum "FailedToStoreInTheFile" {

```

```

    value 172;
    description
        "Error if it failed to store the data in the given file path";
}
enum "TrustCodeAlreadyInstalled" {
    value 173;
    description
        "Error if the user tries to generate trust request
        but trust code has already been installed";
}
enum "ErrorMax" {
    description
        "max error code";
}
}
description
    "Smart License error codes returned by
    Smart Licensing RPC calls";
}
}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#   Name <email address>

Paul Borman <borman@google.com>
Andrew Fort <afort@arista.com>
Rob Shakir <robjs@google.com>
--
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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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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.
module Cisco-IOS-XR-smart-license-platform-oper {
  namespace "http://cisco.com/ns/yang/Cisco-IOS-XR-smart-license-platform-oper";
  prefix smart-license-platform-oper;

  import cisco-semver {
    prefix semver;
  }
  include Cisco-IOS-XR-smart-license-platform-oper-sub1 {
    revision-date 2022-09-28;
  }

  organization
    "Cisco Systems, Inc.";
  contact
    "Cisco Systems, Inc.
    Customer Service

    Postal: 170 West Tasman Drive
    San Jose, CA 95134

    Tel: +1 800 553-NETS

    E-mail: cs-yang@cisco.com";
  description
    "This module contains a collection of YANG definitions
    for Cisco IOS-XR smart-license-platform package operational data.

    This module contains definitions
    for the following management objects:
    plat-smart-license: Smart License info

    Copyright (c) 2013-2022 by Cisco Systems, Inc.
    All rights reserved.";

  revision 2022-09-28 {
    description
      "Added zr-zrp-dco under ft-feature-name-enum enum.
      2022-07-27
      Renamed node-deactivated enum to perpetual-without-sia-renewal in Sia-status-enum type.
      2022-05-09
      Traffic-Eng Advantage license feature renamed to SR-TE Advantage license in feature-details container.";
    semver:module-version "2.0.0";
  }
}

```

```

}
revision 2021-06-03 {
  description
    "Added support for enum node-deactivated.";
  semver:module-version "1.1.0";
}
revision 2020-09-15 {
  description
    "Structured the yang response for show CLIs.";
  semver:module-version "1.0.0";
}
revision 2019-04-05 {
  description
    "Establish semantic version baseline.";
}
revision 2015-11-09 {
  description
    "IOS XR 6.0 revision.";
}

container plat-smart-license {
  config false;
  description
    "Smart License info";
  container detail {
    description
      "Node Detail";
    uses PLAT-SL-DETAIL;
  }
  container summary {
    description
      "Node Summary";
    uses PLAT-SL-SUMMARY;
  }
}

submodule Cisco-IOS-XR-infra-smartlicense-oper-sub1 {
  belongs-to Cisco-IOS-XR-infra-smartlicense-oper {
    prefix Cisco-IOS-XR-infra-smartlicense-oper;
  }
}

import cisco-semver {
  prefix semver;
}

organization
  "Cisco Systems, Inc.";
contact

```

"Cisco Systems, Inc.  
Customer Service

Postal: 170 West Tasman Drive  
San Jose, CA 95134

Tel: +1 800 553-NETS

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

description

"This submodule contains a collection of YANG definitions  
for Cisco IOS-XR infra-smartlicense package operational data.

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All rights reserved.";

revision 2019-04-05 {

description

"Establish semantic version baseline.";

semver:module-version "1.0.0";

}

revision 2015-11-09 {

description

"IOS XR 6.0 revision.";

}

typedef Export-status-time-enum {

type enumeration {

enum "time-not-started" {

description

"time not

started";

}

enum "time-in-progress" {

description

"time in progress";

}

enum "time-success" {

description

"time success";

}

enum "time-failed" {

description

"time failed";

}

}

description

"exportStatusTimeEnum";



```

}

typedef License-term-type-enum {
  type enumeration {
    enum "none" {
      description
        "There is no term information. Probably an error
        condition.";
    }
    enum "perpetual" {
      description
        "License term type is perpetual.";
    }
    enum "term" {
      description
        "term license that includes a start and end date";
    }
    enum "subscription" {
      description
        "License term type is subscription.";
    }
    enum "max" {
      description
        "max value";
    }
  }
  description
    "The license term type.";
}

```

```

typedef License-enforcement-type-enum {
  type enumeration {
    enum "invalid" {
      description
        "Invalid";
    }
    enum "not-enforced" {
      description
        "License type is not enforced.";
    }
    enum "enforced" {
      description
        "License type is enforced.";
    }
    enum "export" {
      description
        "License type is export restricted.";
    }
  }
}

```

```
enum "license-enforcement-max" {
  description
  "Max Value";
}
}
description
"The license (entitlement tag) type.";
}
```

```
typedef Install-status-enum {
  type enumeration {
    enum "in-progress" {
      description
      "in progress";
    }
    enum "not-installed" {
      description
      "not installed";
    }
    enum "type-universal" {
      description
      "type universal";
    }
    enum "type-specific" {
      description
      "type specific";
    }
  }
  description
  "install state";
}
```

```
typedef Export-entitlement-status-enum
{
  type enumeration {
    enum "not-restricted" {
      value 1;
      description
      "not restricted";
    }
    enum "authorized" {
      value 2;
      description
      "authorized";
    }
    enum "not-authorized" {
      value 3;
      description
```

```

        "not authorized";
    }
}
description
    "exportEntitlementStatusEnum";
}

typedef Reservation-usage-status-enum {
    type enumeration {
        enum "not-installed" {
            description
                "not installed";
        }
        enum "plr-installed" {
            description
                "plr installed";
        }
        enum "slr-installed" {
            description
                "slr installed";
        }
        enum "in-progress" {
            description
                "in progress";
        }
    }
}
description
    "reservationUsageStatusEnum";
}

```

```

typedef Enforcement-mode-enum {
    type enumeration {
        enum "waiting" {
            value 0;
            description
                "The initial state after an entitlement request
                while we are waiting for the Authorization
                request response. In this mode the device will
                already have established communications with
                Cisco and successfully registered with the
                Cisco Licensing cloud.";
        }
        enum "in-compliance" {
            value 1;
            description
                "Cisco Smart Software Manager (CSSM) has
                responded that the entitlement requested is in

```

```

    compliance.";
}
enum "out-of-compliance" {
    value 2;
    description
        "Cisco Smart Software Manager (CSSM) has
        responded that the entitlement requested is out
        of compliance. either too many licenses
        /entitlements are in use or the license has not
        been purchased ";
}
enum "overage" {
    value 3;
    description
        "more licenses are in use than were  purchased
        but the customer is
still within the terms of
        their contract";
}
enum "evaluation" {
    value 4;
    description
        "The agent is using the evaluation period for
        this entitlement. In this mode the device has
        not established communications with Cisco and
        had not registered";
}
enum "evaluation-expired" {
    value 5;
    description
        " Eval period has expired";
}
enum "authorization-expired" {
    value 6;
    description
        "Authorization period has expired. This will
        occur if the product has not been able to
        communicate  with Cisco or a satellite for an
        extended period of time, usually 90 days.";
}
enum "reservation-in-compliance" {
    value 7;
    description
        "The entitlement requested is in compliance
        because a reservation authorization code is
        installed and the product is in Permanent

```

```

License Reservation mode.";
}
enum "invalid-tag" {
value 8;
description
"The entitlement tag is invalid. The CSSM does
not recognize the entitlement tag because it is
not in the database. This usually only occurs
during testing.";
}
enum "disabled" {
value 9;
description
"Smart licensing has been disabled. The feature
using this license should be disabled.";
}
enum "in-use" {
value 10;
description
"This entitlement is in use";
}
enum "not-in-use" {
value 11;
description
"This entitlement is not in use";
}
enum "not-authorized" {
value 12;
description
"This entitlement is in use but is not
authorized. The feature consuming this
entitlement should be disabled";
}
enum "mode-invalid" {
value 13;
description
"Error condition state";
}
enum "mode-init" {
value 14;
description
"The initial state after the handle is created
with SmartAgentCreateHandle This will be the
mode if the entitlement is not in use.";
}
enum "grace-period" {
value 15;
description

```

```

    "The grace period has being deprecated.";
}
enum "grace-period-expired" {
    value 16;
    description
        "The grace period has been deprecated.";
}
enum "not-applicable" {
    value 17;
    description
        "This enforcement mode will only be set in case
        smart agent is operational in enhanced mode.";
}
enum "enforcement-max" {
    value 18;
    description
        "always the last state";
}
}
description
    "For an entitlement tag (license) that is in use
    this enumeration tells us how the license is
    being enforced.";
}

typedef Transport-type-enum {
    type enumeration {
        enum "invalid" {
            description
                "Not used in most case";
        }
        enum "not-used" {
            description
                "Not used";
        }
        enum "callhome" {
            description
                "Smart Licensing is using callhome for
                communications.";
        }
        enum "smart" {
            description
                "Smart licensing is using the smart transport
                for communications.";
        }
        enum "clsu" {
            description
                "Smart licensing will communicate with the CSLU)

```

```

        for licensing operations";
    }
    enum "transport-off" {
        description
            "Transport off";
    }
}
description
    "The type of transport in use by smart licensing.";
}

```

```

typedef Utility-reporting-type-enum {
    type enumeration {
        enum "none" {
            description
                "The system is not reporting utility usage data.";
        }
        enum "subscription"
        {
            description
                "The system is reporting utility usage data
                because it has received subscription
                information from either the SSM or satellite";
        }
        enum "certificate" {
            description
                "The system is reporting utility usage data
                because it has received a utility certificate
                from a Third Party Billing Platform.";
        }
    }
}
description
    "Is the system reporting utility data";
}

```

```

typedef Authorization-state-enum {
    type enumeration {
        enum "none" {
            description
                "No licenses are in use so there is no
                authorization state to report.";
        }
        enum "eval" {
            description
                "Evaluation period is in use and is counting
                down.";
        }
        enum "eval-expired" {

```

```

description
    "Evaluation period in use but it has expired.";
}
enum "authorized" {
description
    "All license usage is authorized
and within
    terms of the customer's contract.";
}
enum "authorized-reservation" {
description
    "All license usage is authorized because a
    reservation authorization code is installed.";
}
enum "out-of-compliance" {
description
    "License usage is out of compliance with the
    terms of the contract. Either too many licenses
    are in use or licenses that were not purchased
    are in use.";
}
enum "authorization-expired" {
description
    "The authorization period has expired because
    this product instance has not communicated with
    the SSM or satellite in over 90 days.";
}
enum "authorization-not-authorized" {
description
    "AuthorizationNotAuthorized";
}
}
description
    "The smart licensing authorization state.";
}

```

```

typedef Export-status-type-enum {
type enumeration {
enum "allowed"
{
description
    "ExportStatusAllowed";
}
enum "not-allowed" {
description
    "ExportStatusNotAllowed";
}
enum "conditional" {

```



```

    description
      "ExportStatusConditional";
  }
}
description
  "Export control status information";
}

typedef Registration-state-enum {
  type enumeration {
    enum "not-registered" {
      value 0;
      description
        "This smart licensing instance is not registered
        .";
    }
    enum "complete" {
      value 1;
      description
        "Registration was successful";
    }
    enum "in-progress" {
      value 2;
      description
        "Registration is in progress.";
    }
    enum "retry" {
      value 3;
      description
        "The initial registration attempt failed but a
        retry is in progress.";
    }
    enum "failed" {
      value 4;
      description
        "Registration failed.";
    }
    enum "not-supported" {
      value 5;
      description
        "Registration is not supported in the current
        operating mode.";
    }
  }
}
description
  "The smart licensing registration state.";
}

```

```

typedef Bool-state {
  type enumeration {
    enum "no" {
      value 0;
      description
        "No";
    }
    enum "yes" {
      value 1;
      description
        "Yes";
    }
  }
  description
    "Boolean State ";
}

```

```

grouping EXPORT-AUTH-KEY-UDI {
  description
    "EXPORT AUTH KEY UDI";
  container udi {
    description
      "UDI";
    uses SMARTAGENT-UDI;
  }
  leaf num-strings {
    type int32;
    description
      "numStrings";
  }
  list return-key {
    description
      "returnKeyList";
    uses KEY-LIST;
  }
}

```

```

grouping EXPORT-AUTH-KEY-LIST {
  description
    "EXPORT AUTH KEY LIST";
  leaf num-elements {
    type int32;
    description

    "NumElements";
  }
  list list {
    description

```

```
    "List";
    uses EXPORT-AUTH-KEY-UDI;
  }
}
```

```
grouping KEY-LIST {
  description
    "KEY LIST";
  leaf key {
    type string;
    description
      "Key";
  }
}
```

```
grouping EXPORT-RETURN-KEY-UDI {
  description
    "EXPORT RETURN KEY UDI";
  container udi {
    description
      "UDI";
    uses SMARTAGENT-UDI;
  }
  leaf num-strings {
    type int32;
    description
      "numStrings";
  }
  list return-key {
    description
      "returnKeyList";
    uses KEY-LIST;
  }
}
```

```
grouping EXPORT-RETURN-KEY-LIST {
  description
    "EXPORT RETURN KEY LIST";
  leaf num-elements {
    type int32;
    description
      "NumElements";
  }
  list list {
    description
      "List";
    uses EXPORT-RETURN-KEY-UDI;
  }
}
```

```

}

grouping EXPORT-STATUS-TIME {
  description
    "EXPORT STATUS TIME";
  leaf status {
    type Export-status-time-enum;
    description
      "Status";
  }
  leaf operation-time {
    type string;
    description
      "OperationTime";
  }
  leaf operation-next-time {
    type string;
    description
      "operationNextTime";
  }
  leaf failure-message {
    type string;
    description
      "FailureMessage";
  }
}

grouping EXPORT-AUTH-KEYS {
  description
    "EXPORT AUTH KEYS";
  container export-key-request-status {
    description
      "ExportKeyRequestStatus";
    uses EXPORT-STATUS-TIME;
  }
  container export-key-return-status {
    description
      "ExportKeyReturnStatus";
    uses EXPORT-STATUS-TIME;
  }
  container export-return-keys {
    description
      " ExportReturnKeys";
    uses EXPORT-RETURN-KEY-LIST;
  }
  container export-features-authorized {
    description
      "ExportFeaturesAuthorized";
  }
}

```

```

    uses EXPORT-AUTH-KEY-LIST;
  }
}

grouping SMART-AGENT-TERM-INFO {
  description
    "SMART AGENT
TERM INFO";
  leaf type {
    type License-term-type-enum;
    description
      "The type of the term license.";
  }
  leaf count {
    type int32;
    description
      "The count for this term.";
  }
  leaf start-date {
    type string;
    description
      "The date and time the term starts.";
  }
  leaf end-date {
    type string;
    description
      "The date and time the term ends.";
  }
  leaf subscription-id {
    type string;
    description
      "SubscriptionId";
  }
}

grouping SMART-AGENT-HAUDI-TERM {
  description
    "SMART AGENT HAUDI TERM";
  container udi {
    description
      "the UDI and HA role for this reservation
information";
    uses SMARTAGENT-UDI;
  }
  list term-count {
    description
      "The list of term information";
    uses SMART-AGENT-TERM-INFO;
  }
}

```

```

}
}

grouping SMARTAGENT-RESERVATION-ENTITLEMENTLIST {
  description
    "SMARTAGENT RESERVATION ENTITLEMENTLIST";
  leaf entitlement-tag {
    type string;
    description
      "The ISO 19770-2 entitlement tag used to define
      this license";
  }
  leaf short-name {
    type string;
    description
      "The human readable license name from the
      entitlement tag.";
  }
  leaf license-name {
    type string;
    description
      "The license name that can be seen on the Cisco
      Smart Software Manger (CSSM).";
  }
  leaf description {
    type string;
    description
      "The long description of this license.";
  }
  leaf total-count {
    type int32;
    description
      "The total aggregated count available for this
      license.";
  }
  leaf license-enforcement-type {
    type License-enforcement-type-enum;
    description
      "Indicates what type of license this is.";
  }
  list term-info {
    description
      "the list of term info for each UDI This is an
      array of structures";
    uses SMART-AGENT-HAUDI-TERM;
  }
}
}

```

```

grouping LICENSE-AUTH-OVERALL-INFO {
  description
    "LICENSE AUTH OVERALL INFO";
  container udi {
    description
      "UDI of this device";
    uses SMARTAGENT-UDI;
  }
  leaf install-status {
    type Install-status-enum;
    description
      "Install Status";
  }
  leaf status-time {
    type string;
    description
      "Status Time";
  }
  leaf export-control-status {
    type Export-status-type-enum;
    description
      "Export control status information";
  }
  leaf request-code {
    type string;
    description
      "Request code";
  }
  leaf return-code {
    type string;
    description
      "ReturnCode";
  }
  leaf confirmation-code {
    type string;
    description
      "ConfirmationCode";
  }
  leaf authorization-code {
    type string;
    description
      "AuthorizationCode";
  }
  leaf error-message {
    type string;
    description
      "ErrorMessage";
  }
}

```

```

}

grouping IMPORTED-AUTHORIZATIONS {
  description
    "IMPORTED AUTHORIZATIONS";
  list overall-status {
    description
      "list of all reservation status information for
      all UDIs";
    uses LICENSE-AUTH-OVERALL-INFO;
  }
  list authorization {
    description
      "Information about how a single license is
      authorized.";
    uses SMARTAGENT-RESERVATION-ENTITLEMENTLIST;
  }
}

```

```

grouping RESERVATION-USAGE {
  description
    "RESERVATION USAGE";
  leaf reservation-usage-status {
    type Reservation-usage-status-enum;
    description
      "ReservationUsageStatus";
  }
  leaf total-reserved-count {
    type int32;
    description
      "totalReservedCount";
  }
}

```

```

grouping LICENSE-USAGE {
  description
    "LICENSE USAGE";
  container reservation-usage {
    description
      "Reservation Usage";
    uses RESERVATION-USAGE;
  }
  leaf entitlement-tag
  {
    type string;
    description
      "The ISO 19770 entitlement tag used to define
      this license.";
  }
}

```



```

}
leaf short-name {
  type string;
  description
    "The human readable license name from the
    entitlement tag.";
}
leaf license-name {
  type string;
  description
    "The license name that can be seen in the CSSM
    portal or on the satellite.This is only
    available after the product has registered.";
}
leaf description {
  type string;
  description
    "The long description of this license.This is
    only available after the product has registered.";
}
leaf count {
  type uint32;
  description
    "The in-use count of this license. Note that
    licensing only reports usage for licenses that
    are in use (count of 1 or greater).";
}
leaf enforce-mode {
  type Enforcement-mode-enum;
  description
    "The current enforcement
mode of this license.";
}
leaf post-paid {
  type Bool-state;
  description
    "If true then this entitlement is being reported
    in a post paid mode with utility usage reports.
    Otherwise it will be reported in the regular
    prepaid mode.";
}
leaf subscription-id {
  type string;
  description
    "Subscription ID for this feature.";
}
leaf export-entitlement-status {
  type Export-entitlement-status-enum;

```

```

description
  "exportEntitlementStatus";
}
leaf feature-description {
  type string;
  description
    "FeatureDescription";
}
leaf feature-name {
  type string;
  description
    "FeatureName";
}
}

grouping SMARTAGENT-UDI {
  description
    "SMARTAGENT UDI";
  leaf pid {
    type string;
    description
      "The Product Identifier. Always combined with sn.";
  }
  leaf sn {
    type string;
    description
      "The
system serial number. Always combined with
pid.";
  }
  leaf vid {
    type string;
    description
      "The version identifier. Usually combined with
pid & sn.";
  }
  leaf uuid {
    type string;
    description
      "A 32 byte hex value generated by the system.
This will be in proper UUID format 8-4-4-4-12.
Often used by VMs or other systems that do not
have a hardware identifier.";
  }
  leaf suvi {
    type string;
    description
      "Free form virtual identifier often used by

```

```

    software only devices like software routers or
    VMs.";
}
leaf host-identifier {
    type string;
    description
        "Host identifier available on some systems.
        Typically 8 hex digits.";
}
leaf mac-address {
    type string;
    description
        "The MAC address of the system. This is usually
        only used if there is nothing else available to
        be used as
an identifier.";
}
}

```

```

grouping EVAL-EXPIRE-TIME {
    description
        "EVAL EXPIRE TIME";
    leaf expire-time {
        type string;
        description
            "Date and time the evaluation period expired.";
    }
}

```

```

grouping EVAL-PERIOD-LEFT {
    description
        "EVAL PERIOD LEFT";
    leaf time-left {
        type uint64;
        units "second";
        description
            "Number of seconds of license usage until the
            evaluation period expires.";
    }
}

```

```

grouping EVAL-PERIOD-STATE {
    description
        "EVAL PERIOD STATE";
    container eval-period-left {
        description
            "If the evaluation period is not expired this is
            the number of seconds left in the period.";
    }
}

```

```

    uses EVAL-PERIOD-LEFT;
  }
  container eval-expire-time {
    description
      "If the evaluation period has expired then this
      is the time of the expiration.";
    uses EVAL-EXPIRE-TIME;
  }
  leaf eval-in-use {
    type Bool-state;
    description
      "Is the evaluation period currently in use and
      counting down.";
  }
  leaf eval-expired {
    type Bool-state;
    description
      "Has the evaluation period expired.";
  }
}

```

```

grouping SMART-AGENT-PRIVACY-INFO {
  description
    "SMART AGENT PRIVACY INFO";
  leaf host-name {
    type Bool-state;
    description
      "If true then the hostname will not be sent in
      any messages.";
  }
  leaf version {
    type Bool-state;
    description
      "If true then the smart licensing version will
      not be sent in any messages.";
  }
}

```

```

grouping PROXY-INFO {
  description
    "PROXY INFO";
  leaf address {
    type string;
    description
      "Proxy address for sending message.";
  }
  leaf port {
    type string;
  }
}

```

```

description
  "Proxy port for sending message.";
}
}

grouping URL-SETTINGS {
description
  "URL SETTINGS";
leaf url-registration {
  type string;

description
  "The URL used for registration, authorization and
  any other messages not related to utility.";
}
leaf url-utility {
  type string;
description
  "The URL used for utility reporting. url-utility
  and url-registration may be the same or
  different. If a satellite is in use then they
  will probably be the same.";
}
}

grouping SMART-AGENT-TRANSPORT-INFO {
description
  "SMART AGENT TRANSPORT INFO";
container url-settings {
description
  "URLs in use if the transport type is smart.";
uses URL-SETTINGS;
}
container proxy-info {
description
  "Proxy information if the transport type is smart
  .";
uses PROXY-INFO;
}
leaf transport-type {
  type Transport-type-enum;
description
  "The communications transport type set in the
  config";
}
}

grouping SMARTAGENT-CUSTOMER-INFO {

```

```

description
  "SMARTAGENT
CUSTOMER INFO";
leaf id {
  type string;
  description
    "The cisco issued customer id which will be
    included in the utility usage (RUM) report.";
}
leaf name {
  type string;
  description
    "The customer company name which will be included
    in the utility usage (RUM) report.";
}
leaf street {
  type string;
  description
    "The customer company street address which will
    be included in the utility usage (RUM) report.";
}
leaf city {
  type string;
  description
    "The customer company city which will be included
    in the utility usage (RUM) report.";
}
leaf state {
  type string;
  description
    "The customer company state which will be
    included in the utility usage (RUM) report.";
}
leaf country {
  type string;
  description
    "The customer company country which will be
    included in the utility usage (RUM)
report.";
}
leaf postal-code {
  type string;
  description
    "The customer location specific postal code which
    will be included in the utility usage (RUM)
report.";
}
}

```

```

grouping SMART-AGENT-UTILITY-INFO {
  description
    "SMART AGENT UTILITY INFO";
  container customer-info {
    description
      "Customer address information that will be
        included in the utility usage reports.";
    uses SMARTAGENT-CUSTOMER-INFO;
  }
  leaf utility-enable {
    type Bool-state;
    description
      "Flag to indicate if Utility is currently enabled";
  }
  leaf reporting {
    type Utility-reporting-type-enum;
    description
      "Is the system reporting utility data.";
  }
}

grouping AUTHORIZATION-AUTHORIZATION-EXPIRED {
  description
    "AUTHORIZATION AUTHORIZATION EXPIRED";
  container authorization-info {
    description
      "Additional authorization state information used

by some of the authorization states.";
    uses AUTHORIZATION-INFO;
  }
}

grouping AUTHORIZATION-OUT-OF-COMPLIANCE {
  description
    "AUTHORIZATION OUT OF COMPLIANCE";
  container authorization-info {
    description
      "Additional authorization state information used
        by some of the authorization states.";
    uses AUTHORIZATION-INFO;
  }
  leaf ooc-time {
    type string;
    description
      "Time the product instance entered the out of
        compliance state.";
  }
}

```

```

}
}

grouping AUTHORIZATION-AUTHORIZED-RESERVATION {
  description
    "AUTHORIZATION AUTHORIZED RESERVATION";
  leaf reservation-time {
    type string;
    description
      "Time the reservation occurred.";
  }
}

```

```

grouping AUTHORIZATION-INFO {
  description
    "AUTHORIZATION INFO";
  leaf last-comm-status-success {
    type Bool-state;
    description
      "Last communication was successful or failed.";
  }
  leaf fail-message {
    type string;
    description
      "Failure message if the last communications
      attempt failed.This can be displayed for the
      user. It is not a parsable string.";
  }
  leaf last-comm-time {
    type string;
    description
      "Time the last communication attempt happened.";
  }
  leaf next-comm-time {
    type string;
    description
      "The next time communications will be attempted
      to the back end.This will be zero if the initial
      communication has not completed.";
  }
  leaf comm-deadline-time {
    type string;
    description
      "If there are no communications between now and
      this time smart licensing will enter the
      authorization expired state.This may be zero
      indicating there is no deadline.";
  }
}

```



```

}

grouping AUTHORIZATION-AUTHORIZED {
  description
    "AUTHORIZATION AUTHORIZED";
  container authorization-info {
    description
      "Additional authorization
state information used
  by some of the authorization states.";
    uses AUTHORIZATION-INFO;
  }
}

grouping AUTHORIZATION-EVAL-EXPIRED {
  description
    "AUTHORIZATION EVAL EXPIRED";
  leaf expire-time {
    type string;
    description
      "Time the evaluation period expired.";
  }
}

grouping EVALUATION-TIME-LEFT {
  description
    "EVALUATION TIME LEFT";
  leaf seconds-left {
    type uint64;
    units "second";
    description
      "Number of seconds of license usage until the
evaluation period expires. Note that this not a
hard date and time because if no licenses are in
use the evaluation period stops counting down.";
  }
}

grouping AUTHORIZATION-EVAL {
  description
    "AUTHORIZATION EVAL";
  container evaluation-time-left {
    description
      "Number of seconds of license usage until the
evaluation period expires.";
    uses EVALUATION-TIME-LEFT;
  }
}

```

```

grouping
AUTHORIZATION-NONE {
  description
    "AUTHORIZATION NONE";
  leaf empty {
    type string;
    description
      "Empty string and container";
  }
}

grouping AUTHORIZATION-STATE {
  description
    "AUTHORIZATION STATE";
  container authorization-none {
    description
      "No licenses in use.This empty container is not
      needed but is a place holder to show there is no
      data for this state.";
    uses AUTHORIZATION-NONE;
  }
  container authorization-eval {
    description
      "Evaluation period is in use and counting down
      .The evaluation period only counts down when
      licenses are in use.";
    uses AUTHORIZATION-EVAL;
  }
  container authorization-eval-expired {
    description
      "Evaluation period is in use but has expired.";
    uses AUTHORIZATION-EVAL-EXPIRED;
  }
  container authorization-authorized {
    description
      "All license usage is authorized and within terms
      of the contract. uses authorization-info";
    uses AUTHORIZATION-AUTHORIZED;
  }
  container authorization-authorized-reservation {
    description
      "All license usage is authorized because a
      reservation authorization code is installed.";
    uses AUTHORIZATION-AUTHORIZED-RESERVATION;
  }
  container authorization-out-of-compliance {
    description

```

```

    "License usage is out of compliance with the
    terms of the contract because more licenses are
    in use than were purchased.";
    uses AUTHORIZATION-OUT-OF-COMPLIANCE;
}
container authorization-authorization-expired {
    description
    "The authorization period has expired because the
    product instance has not communicated with the
    SSM or satellite in over 90 days.";
    uses AUTHORIZATION-AUTHORIZATION-EXPIRED;
}
leaf authorization-state {
    type Authorization-state-enum;
    description
    "The current authorization state.";
}
}

```

```

grouping REGISTRATION-COMPLETE {
    description
    "REGISTRATION COMPLETE";
    leaf complete-time {
        type string;
        description
        "Time the registration was successful.";
    }
    leaf last-renew-time {
        type string;
        description
        "Time the last registration renewal occurred. If
        empty then no renewal has occurred.";
    }
    leaf next-renew-time {
        type string;
        description
        "Time the registration will be automatically
        renewed.";
    }
    leaf expire-time {
        type string;
        description
        "Time the registration will expire if it is not
        renewed.";
    }
    leaf last-renew-success {
        type Bool-state;
        description

```

```

    "Was the last renewal attempt successful.";
}
leaf fail-message {
  type string;
  description
    "If the last renewal failed then this is a
    failure message that can be displayed for the
    user. This is not a parsable
string. Only
    present if the last renewal failed";
}
leaf smart-account {
  type string;
  description
    "The smart account name for this registration.";
}
leaf virtual-account {
  type string;
  description
    "The virtual account name for this registration.";
}
}

```

```

grouping REGISTRATION-RETRY {
  description
    "REGISTRATION RETRY";
  container registration-info {
    description
      "Registration failed info.";
    uses REGISTRATION-FAILED;
  }
  leaf retry-next-time {
    type string;
    description
      "Time the registration will be retried.";
  }
}

```

```

grouping REGISTRATION-FAILED {
  description
    "REGISTRATION FAILED";
  leaf fail-time {
    type string;
    description
      "Time the registration failed.";
  }
  leaf fail-message {
    type string;
  }
}

```

```

description
  "Failure message that can be displayed for the
  user.This is not a parsable message.";
}
}

```

```

grouping REGISTRATION-IN-PROGRESS {
description
  "REGISTRATION IN PROGRESS";
leaf start-time {
  type string;
  description
    "Time the registration started.";
}
}

```

```

grouping SMARTAGENT-REGISTER {
description
  "SMARTAGENT REGISTER";
container registration-in-progress {
description
  "Registration is in progress.";
uses REGISTRATION-IN-PROGRESS;
}
container registration-failed {
description
  "Registration failed.";
uses REGISTRATION-FAILED;
}
container registration-retry {
description
  "Registration failed and doing a retry.";
uses REGISTRATION-RETRY;
}
container registration-complete {
description
  "Registration success.";
uses REGISTRATION-COMPLETE;
}
leaf registration-state {
type Registration-state-enum;
description
  "The current registration state.";
}
leaf export-control-allowed {

type Bool-state;
description

```

```

    "Is the device allowed to enable export
    controlled features.";
}
leaf export-control-status {
    type Export-status-type-enum;
    description
        "Export control status information";
}
}

grouping STATE-INFO {
    description
        "STATE INFO";
    container registration {
        description
            "The state of the registration for this product
            instance.";
        uses SMARTAGENT-REGISTER;
    }
    container authorization {
        description
            "State of license authorization.";
        uses AUTHORIZATION-STATE;
    }
    container utility {
        description
            "Utility settings.";
        uses SMART-AGENT-UTILITY-INFO;
    }
    container transport {
        description
            "Transport layer settings.";
        uses SMART-AGENT-TRANSPORT-INFO;
    }
    container privacy {
        description
            "Controls whether or not some information is sent
            in messages to the Cisco Smart Software
Manger
            (CSSM) or satellite.";
        uses SMART-AGENT-PRIVACY-INFO;
    }
    container evaluation {
        description
            "State of the evaluation period. In use or not
            and time left.";
        uses EVAL-PERIOD-STATE;
    }
}

```

```

container udi {
  description
    "UDI of the system.";
  uses SMARTAGENT-UDI;
}
container reservation {
  description
    "Information about all licenses that are
    authorized and how they were authorized";
  uses IMPORTED-AUTHORIZATIONS;
}
container export-authorization-keys {
  description
    "Export Authorization Keys";
  uses EXPORT-AUTH-KEYS;
}
leaf custom-id {
  type string;
  description
    "The custom ID set by the customer that will be
    included in the utility usage (RUM) report and
    in th emessage header";
}
leaf conversion-enabled {
  type Bool-state;
  description
    "Conversion Enabled or not";
}

list usage {
  description
    "List of license (entitlement tag) usage
    information. This only contains the information
    for licenses that are in use.";
  uses LICENSE-USAGE;
}
}

grouping SMART-AGENT-STATE {
  description
    "SMART AGENT STATE";
  container state-info {
    description
      "This state-info is only available if
      smart-enabled = true";
    uses STATE-INFO;
  }
  leaf always-enabled {

```

```

    type Bool-state;
    description
      "Is Smart Licensing is always enabled.";
  }
  leaf smart-enabled {
    type Bool-state;
    description
      "Is smart licensing enabled";
  }
  leaf version {
    type string;
    description
      "The smart licensing version in use.";
  }
}

grouping SMARTAGENT-LICENSING-INFO {
  description
    "All information of Smart Licensing common yang
    model";
  container state {
    description
      "Smart licensing state.";
    uses SMART-AGENT-STATE;
  }
}
}

```

# 1.170 protobuf 1.31.0

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## 1.171 go-uber-org-multierr 1.6.0

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## 1.173 python-setuptools 68.2.2

### 1.173.1 Available under license :

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
2.1.2	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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## 1.174 google-uuid 1.3.1

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cd1

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.178 spew 1.1.1

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# 1.188 python-setuptools 65.5.0

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for

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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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`validate-pyproject`

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# 1.189 python-pip 23.2.1

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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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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#### 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
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# 1.190 python-pip 23.1.2

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

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
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2.5.3	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
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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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# 1.196 google-go-cmp 0.6.0

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## 1.197 influxdb 1.9.4

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## 1.198 scheduler 0.0.0-20170109141437-ee74d2f83d82

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## 1.199 wheel 0.41.3

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## 1.200 genproto-googleapis-rpc 0.0.0-20231030173426-d783a09b4405

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## 1.201 x-text 0.14.0

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# 1.202 google-golang-org-genproto 0.0.0-20231030173426-d783a09b4405

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# 1.206 genproto-googleapis-api 0.0.0-20231106174013-bbf56f31fb17

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```
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under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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# 1.210 dsnet-compress 0.0.2-

## 0.20210315054119-f66993602bf5

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```

package ssh
import (
    dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
    Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}

func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
/*
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*/

```

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# Protocol Documentation

[top](#)

## Table of Contents

- [cw\_ztp\_license\_device.proto](#cw\_ztp\_license\_device-proto)

- [ZtpLicenseDevice](#cwztpsvc-ZtpLicenseDevice)

- [Scalar Value Types](#scalar-value-types)

[cw\\_ztp\\_license\\_device.proto](#)

[Top](#)

## cw\_ztp\_license\_device.proto

<a name="cwztpsvc-ZtpLicenseDevice"></a>

### ZtpLicenseDevice

Field	Type	Label	Description
deviceSerialNumber	[string](#string)		

## Scalar Value Types

.proto	Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" />	double		double	double	float	float64	double	float	Float
<a name="float" />	float		float	float	float	float32	float	float	Float
<a name="int32" />	int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" />	int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" />	uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" />	uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" />	sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" />	sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" />	fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.							

uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)		
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.							
string	String	str/unicode	string	string	string	String (UTF-8)		
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte			
ByteString | string | String (ASCII-8BIT) |

# Protocol Documentation

<a name="top"></a>

## Table of Contents

- [cw\_ztp\_license\_device\_v2.proto](#cw\_ztp\_license\_device\_v2-proto)

- [ZtpLicenseDeviceV2](#cwztpsvc-ZtpLicenseDeviceV2)

- [Scalar Value Types](#scalar-value-types)

<a name="cw\_ztp\_license\_device\_v2-proto"></a>

<p align="right"><a href="#top">Top</a></p>

## cw\_ztp\_license\_device\_v2.proto

<a name="cwztpsvc-ZtpLicenseDeviceV2"></a>

### ZtpLicenseDeviceV2

Field	Type	Label	Description
-----	----	-----	-----
uuid	[string](#string)		
serialNumber	[string](#string)	repeated	
locationId	[string](#string)		



## ## Scalar Value Types

```
| .proto Type | Notes | C++ | Java | Python | Go | C# | PHP | Ruby |
| ----- | ---- | --- | ---- | ----- | -- | -- | --- | ---- |
| <a name="double" /> double | | double | double | float | float64 | double | float | Float |
| <a name="float" /> float | | float | float | float | float32 | float | float |
Float |
| <a name="int32" /> int32 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field
is likely to have negative values, use sint32 instead. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="int64" /> int64 | Uses variable-length encoding. Inefficient for encoding negative numbers if your field
is likely to have negative values, use sint64 instead. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="uint32" /> uint32 | Uses variable-length encoding. | uint32 | int | int/long | uint32 | uint | integer | Bignum
or Fixnum (as required) |
| <a name="uint64" /> uint64 | Uses variable-length encoding. | uint64 | long | int/long | uint64 | ulong | integer/string
| Bignum or Fixnum (as required) |
| <a name="sint32" /> sint32 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int32s. | int32 | int | int | int32 | int | integer
| Bignum or Fixnum (as required) |
| <a name="sint64" /> sint64 | Uses variable-length encoding. Signed int value. These more efficiently encode
negative numbers than regular int64s. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="fixed32" /> fixed32 | Always four bytes. More efficient than uint32 if values are often greater than 2^28.
| uint32 | int | int | uint32 | uint | integer | Bignum or Fixnum (as required) |
| <a name="fixed64" /> fixed64 | Always eight bytes. More efficient than uint64 if values are often greater than
2^56. | uint64 | long | int/long | uint64 | ulong | integer/string | Bignum |
| <a name="sfixed32" /> sfixed32 | Always four bytes. | int32 | int | int | int32 | int | integer | Bignum or Fixnum (as
required) |
| <a name="sfixed64" /> sfixed64 | Always eight bytes. | int64 | long | int/long | int64 | long | integer/string | Bignum |
| <a name="bool" /> bool | | bool | boolean | boolean | bool | bool | boolean | TrueClass/FalseClass
|
| <a name="string" /> string | A string must always contain UTF-8 encoded or 7-bit ASCII text. | string | String |
str/unicode | string | string | string | String (UTF-8) |
| <a name="bytes" /> bytes | May contain any arbitrary sequence of bytes. | string | ByteString | str | []byte |
ByteString | string | String (ASCII-8BIT) |
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto
```

```
package cwztpsvc
```

```
import (
```

```

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

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

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

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

func (m *ZtpLicenseDeviceV2) Reset()      { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
    return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

```

```

var
xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

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

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

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

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

func init() {
proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
// 219 bytes of a gzipped FileDescriptorProto
0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd, 0xc9, 0x12, 0x07, 0x36, 0x99,
0x65,
0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,

```

```
0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
0x00, 0xff, 0xff, 0x66,
0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
```

# Protocol Documentation

[top](#)

## Table of Contents

- [cw\_ztp\_license.proto](#cw\_ztp\_license-proto)

- [ZtpLicense](#cwztpsvc-ZtpLicense)

- [Scalar Value Types](#scalar-value-types)

[cw\\_ztp\\_license-proto](#)

[right](#) [top](#)

## cw\_ztp\_license.proto

[cwztpsvc-ZtpLicense](#)

### ZtpLicense

Field	Type	Label	Description
-------	------	-------	-------------

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

id	[int32](#int32)		
----	-----------------	--	--

status	[string](#string)		
--------	-------------------	--	--

lastUpdated	[int64](#int64)		
-------------	-----------------	--	--

## ## Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding							
negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int			
integer	Bignum or Fixnum (as required)							
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field							
is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum	
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum
or Fixnum (as required)								
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	
Bignum or Fixnum (as required)								
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode							
negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)	
<a name="sint64" /> sint64	Uses variable-length encoding.							
Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64				
long	integer/string	Bignum						
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2<sup>28</sup>.							
uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)		
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than							
2<sup>56</sup>.	uint64	long	int/long	uint64	ulong	integer/string	Bignum	
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as
required)								
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII							
text.	string	String	str/unicode	string	string	string	String (UTF-8)	
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte			
ByteString | string | String (ASCII-8BIT) |  
{  
 "swagger": "2.0",  
 "info": {  
 "title": "proto/cw\_ztp\_license\_device.proto",  
 "version": "version not set"  
 },  
 "consumes": [  
 "application/json"  
 ],  
 "produces": [  
 "application/json"  
 ],  
 "paths": {},  
 "definitions": {  
 "protobufAny": {

```

"type": "object",
"properties": {
  "type_url": {
    "type": "string"
  },
  "value": {
    "type": "string",
    "format": "byte"
  }
},
},
"runtimeError": {
  "type": "object",
  "properties": {
    "error": {
      "type": "string"
    },
    "code": {
      "type": "integer",
      "format": "int32"
    },
    "message": {
      "type": "string"
    },
    "details": {
      "type": "array",
      "items": {
        "$ref": "#/definitions/protobufAny"
      }
    }
  }
},
},
},
},
},
{
  "swagger": "2.0",
  "info": {
    "title": "proto/cw_ztp_license_device_v2.proto",
    "version": "version not set"
  },
  "consumes": [
    "application/json"
  ],
  "produces": [
    "application/json"
  ],
  "paths": {},
  "definitions": {

```



```

var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
    Id          int32  `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status      string `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    IsLabEnabled bool   `protobuf:"varint,3,opt,name=isLabEnabled,proto3" json:"isLabEnabled,omitempty"`
    LastUpdated int64  `protobuf:"varint,4,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
    XXX_NoUnkeyedLiteral struct{ } `json:"-`
    XXX_unrecognized []byte `json:"-`
    XXX_sizecache   int32  `json:"-`
}

func (m *ZtpLicense) Reset()      { *m = ZtpLicense{ } }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX_DiscardUnknown()
{
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {

```



```

if m != nil {
    return m.Id
}
return 0
}

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

func (m *ZtpLicense) GetIsLabEnabled() bool {
if m != nil {
    return m.IsLabEnabled
}
return false
}

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

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

func init() {
    proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
// 241 bytes of a gzipped FileDescriptorProto
0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x54, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
0x10, 0x86, 0x49, 0xab, 0xa5, 0x46, 0x11, 0x0c, 0x22, 0x8b, 0x88, 0x84, 0x9e, 0xf6, 0xe2, 0x06,
0xe9, 0x3f, 0x58, 0xf1, 0x56, 0x68, 0x09, 0x8a,
0xd0, 0x4b, 0xc9, 0x17, 0x69, 0x20, 0xcd, 0x84,
0x66, 0x6a, 0x61, 0x7f, 0xbd, 0xb4, 0xdb, 0xa2, 0x1e, 0xe7, 0x9d, 0x79, 0x1f, 0x9e, 0xa1, 0xf7,
0x66, 0xbf, 0xea, 0x30, 0xaf, 0x62, 0x30, 0x2e, 0x15, 0xd7, 0xe4, 0x2d, 0x20, 0xb0, 0xb1, 0xd9,
0x77, 0x98, 0xcb, 0xb7, 0x79, 0x7c, 0xf2, 0x00, 0x3e, 0x3a, 0xa1, 0x72, 0x10, 0x2a, 0x25, 0x40,
0x85, 0x01, 0x52, 0xe9, 0xef, 0x26, 0x1d, 0xa5, 0x4b, 0xcc, 0xb3, 0xbe, 0xcb, 0x6e, 0xe9, 0x20,
0xd8, 0x8a, 0x70, 0x52, 0x5f, 0xca, 0x41, 0xb0, 0xec, 0x81, 0x8e, 0x0a, 0x2a, 0xdc, 0x95, 0x6a,
0xc0, 0x49, 0x7d, 0x25, 0x4f, 0x13, 0x9b, 0xd0, 0x9b, 0x50, 0x66, 0x4a, 0xbf, 0x27, 0xa5, 0xa3,
0xb3, 0xd5, 0x90, 0x93, 0x7a, 0x2c, 0xff, 0x65, 0x8c, 0xd3, 0xeb, 0xa8, 0x0a, 0x7e, 0x66, 0xab,

```

```

0xd0, 0xd9, 0xea, 0x82, 0x93, 0x7a, 0x28, 0xff, 0x46, 0xed, 0x9a, 0x3e, 0x1b, 0xd8, 0x34, 0x26,
0x14, 0x03, 0xcd, 0x16, 0x34, 0x60, 0x2f, 0xd5, 0x9c, 0xdd, 0xdb, 0xbb, 0xb7, 0xaf, 0x5f, 0xbb,
0xc5, 0x61, 0xb7, 0x20, 0xcb, 0x57, 0x1f, 0x70, 0xbd, 0xd3, 0xd3, 0x53, 0xd1,
0xc0, 0x46, 0xc8,
0x79, 0x3b, 0xff, 0x10, 0x47, 0xc4, 0xcb, 0xe1, 0x4f, 0x0f, 0x51, 0x25, 0x2f, 0xce, 0x1c, 0x3d,
0x3a, 0x72, 0xa7, 0x3f, 0x01, 0x00, 0x00, 0xff, 0xff, 0xf4, 0xb4, 0x37, 0x45, 0x2c, 0x01, 0x00,
0x00,
}
{
"swagger": "2.0",
"info": {
"title": "proto/cw_ztp_license.proto",
"version": "version not set"
},
"consumes": [
"application/json"
],
"produces": [
"application/json"
],
"paths": {},
"definitions": {
"protobufAny": {
"type": "object",
"properties": {
"type_url": {
"type": "string"
},
"value": {
"type": "string",
"format": "byte"
}
}
},
},
"runtimeError": {
"type": "object",
"properties": {
"error": {
"type": "string"
},
"code": {
"type": "integer",
"format": "int32"
},
"message": {
"type": "string"
},
"details": {

```

```

        "type": "array",
        "items": {
            "$ref": "#/definitions/protobufAny"
        }
    }
}
}
}
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

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

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

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

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

func (m *ZtpLicenseDevice)
Reset() { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage() {}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
return fileDescriptor_4637a3ce942b5232, []int{0}
}

```

```

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

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

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

func init() {
    proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
    // 201 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
    0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
    0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
    0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
    0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
    0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
    0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64, 0xe7, 0x1d, 0xc5, 0xd7, 0x42,
    0xbc, 0x6c, 0x42,
    0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
    0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
    0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
    0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,

```

```
0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}
```

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## 1.220 grpc-go 1.60.1

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# 1.226 genproto-googleapis-rpc 0.0.0-20240116215550-a9fa1716bcac

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# 1.227 pierrec-lz4 4.1.15

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# 1.230 protobuf 1.32.0

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# 1.231 google-cloud-go 0.102.1

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

var
    newLicenseCodesClientHook clientHook

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

```

}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
return &LicenseCodesCallOptions{
    Get:          []gax.CallOption{},
    TestIamPermissions: []gax.CallOption{},
}
}

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

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

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

// Wrapper methods routed to the internal client.

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

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

//

```

```

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

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

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

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

    // The http client.
    httpClient *http.Client

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

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

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

```

```

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

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

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

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

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

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

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the

```

License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

```
// Build HTTP headers from client and context metadata.
```

```
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))
```

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

```
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
```

```
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
```

```
resp := &computepb.LicenseCode{ }
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    if settings.Path != "" {
```

```
        baseUrl.Path = settings.Path
```

```
    }
```

```
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

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

```
    httpReq.Header = headers
```

```
    httpRsp, err
```

```
:= c.httpClient.Do(httpReq)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    defer httpRsp.Body.Close()
```

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

```
        return err
```

```
    }
```

```
    buf, err := ioutil.ReadAll(httpRsp.Body)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

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

```

    return maybeUnknownEnum(err)
}

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

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

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

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

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

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2022 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

```

```

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

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

var
    newLicensesClientHook clientHook

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

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

```



```

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

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

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

// Wrapper methods routed to the internal client.

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

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

```

```

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

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

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

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

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

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

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

    // The http client.
    httpClient *http.Client

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

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

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

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

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

```

```

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

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

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

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

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

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

```

```

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

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

```

```

defer httpRsp.Body.Close()

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

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

baseUrl.RawQuery = params.Encode()

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

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

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

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

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

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

```



```

    return maybeUnknownEnum(err)
}

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

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

```

```

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

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

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

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

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

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

```

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

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
```

```

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

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

baseUrl.RawQuery = params.Encode()

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

```

```

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

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

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

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

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

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

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

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

return it

```

```

}

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

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

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

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

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

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}
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```



```

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

    // TODO: Use
    client.
    _ = c
}

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

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

```

```

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

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

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

```

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package compute\_test

import (  
"context"

compute "cloud.google.com/go/compute/apiv1"

"google.golang.org/api/iterator"

```

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

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

    // TODO: Use client.
    _ = c
}

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

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

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

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

    req := &computepb.GetLicenseRequest{

```



```

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

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

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

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

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

```

```

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

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

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

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

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

```

```

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

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

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

```

## 1.232 gokrb5 8.4.2

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## 1.234 google-golang-org-genproto 0.0.0-20240123012728-ef4313101c80

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# 1.235 genproto-googleapis-api 0.0.0-20240123012728-ef4313101c80

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